

**Registration No 69117-10**

# Material Sent for Data Extraction

Reg. # 109117-10

Description: Notification

☐ Material(s) Sent to Data Extraction Contractors:

☐ New Stamped Label Dated \_\_\_\_\_

☒ Notification, Dated JAN 09 2014 & 10/24/13

☐ New CSF(s) Dated \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Decision #: \_\_\_\_\_

☐ Other Action/Comments: \_\_\_\_\_

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: S. Hill

Phone: 347-8961 Division: BD

Date: \_\_\_\_\_



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND HAZARD PREVENTION  
**NOTIFICATION**

Kimerlee Young  
RegWest Company, LLC  
8023 West 20<sup>th</sup> Street, Suite A  
Greeley, CO 80634

**JAN 09 2014**

Subject: Terrier Systemic Antibiotic  
EPA Reg. No. 69117-10  
Notification dated: 11/22/13  
EPA Decision No.: 485494

Dear Ms. Young:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10.


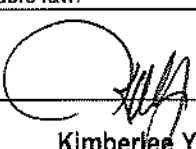
The Agency acknowledges your addition of a third container size (2 fl. oz). The label submitted with the application has been stamped "Notification" and will be placed in our records.

Sincerely,

A handwritten signature in black ink, appearing to read "Shaja Joyner", is written over a circular stamp.

Shaja B. Joyner  
Product Manager 20  
Fungicide Branch  
Registration Division (7504P)

Enclosed: Stamped accepted label

 <div style="display: inline-block; text-align: center;">             United States  <b>Environmental Protection Agency</b>              1200 Pennsylvania Avenue, N.W.              Washington, DC 20460-0001           </div>		<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number  <b>Notification</b>
<b>Application for Pesticide – Section I</b>			
1. Company/Product Number <b>69117-10</b>		2. EPA Product Manager <b>Shaja B. Joyner</b>	
4. Company/Product (Name) <b>TERRIER™ Systemic Antibiotic</b>		3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted	
5. Name and Address of Applicant (Include ZIP Code) <b>ArborSystems, Inc. d/b/a ArborSystems</b> <b>c/o RegWest Company, LLC</b> <b>8203 West 20<sup>th</sup> Street, Suite A</b> <b>Greeley, CO 80634-4696</b> <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i) my product is similar or identical in composition and labeling to:  EPA Reg. No. _____ Product Name _____	
<b>Section – II</b>			
<input type="checkbox"/> Amendment – Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification – Explain below.		<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other – Explain below.	
<b>Explanation:</b> Use additional page(s) if necessary. (For Section I and Section II.)  <div style="text-align: center;"> <b>Notification of Additional Container Size (2 fl oz [60 ml]).</b>   <i>Notification of label change per PR Notice 98-10. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46. No other changes have been made to the labeling or the Confidential Statement of Formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.</i> </div>			
<b>Section – III</b>			
1. Material This Product Will Be Packaged In:			
Child Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify): _____
*Certification must be submitted	If "Yes" Unit Packaging Wt.	No. Per Container	If "Yes" Packaging Wt.
			No. Per Container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container <b>4 fl. oz. (120 ml); 2 fl oz (60 ml); and 1 qt. 2 fl. oz. (1000 ml)</b>	
		5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling Accompanying Product	
6. Manner in Which Label is Affixed to Product		<input type="checkbox"/> Lithograph <input type="checkbox"/> Stenciled <input type="checkbox"/> Paper glued <input checked="" type="checkbox"/> Other <b>Self-adhesive; printed boxes</b>	
<b>Section - IV</b>			
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name <b>Kimberlee Young (aka Kim Davis)</b>		Title <b>Consultant/Agent</b>	
		Telephone No. (Include Area Code) <b>(970) 353-0611</b> <b>kim@regwest.com</b>	
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
2. Signature 		3. Title <b>Consultant/Agent</b>	
4. Typed Name <b>Kimberlee Young (aka Kim Davis)</b>		5. Date <b>November 22, 2013</b>	

## Notification of Additional Container Size



November 22, 2013

Ms. Shaja B. Joyner, Product Manager 20  
Document Processing Desk –**NOTIF**  
Office of Pesticide Programs – **7504P**  
**U.S. Environmental Protection Agency**  
One Potomac Yard (South Building), Room S-4900  
2777 South Crystal Drive  
Arlington, VA 22202

Dear Ms. Joyner:

**Subject:** ArborSystems, Inc., d/b/a ArborSystems  
TERRIER™ System Antibiotic  
EPA Reg. No. 69117-10

On behalf of **ArborSystems**, RegWest Company, LLC is submitting the attached materials as a notification submission of an additional container size. RegWest will act as sole agent in this endeavor.

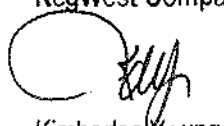
Attached are the following items:

1. Application for Pesticide: **Other (Notification)**
2. One **Reference Label** (illustrating the additional size)
3. Two **New Labels** (incorporating the additional size)

We are adding a third container size of 2 fl oz (60 mls). This same notification was approved on October 24, 2013; unfortunately we received a new EPA stamped accepted label dated September 24, 2013 requiring us to submit this notification to remain consistent with the language on the new stamped accepted label.

Please contact me 970.353.0611 or kim@regwest.com if you have any questions or require additional information.

Regards,  
RegWest Company, LLC



Kimberlee Young  
(aka Kim Davis),  
Consultant/Agent

Attachments

cc: ASI – Doolittle, C.

{Subpart A Label: For Use on Trees Excluding Palms}

## **TERRIER™ Systemic Antibiotic**

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

An ArborSystems™ Direct-Inject™ Chemical

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 2 fl oz (60 ml)]  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

### **CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – Inside pages}

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

**NOTIFICATION**

**JAN 09 2013**

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]  
P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 2 fl oz (60 ml)]  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

#### First Aid

If Swallowed	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on Skin or Clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a> ).	
<b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.	

*{Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}*

#### PRECAUTIONARY STATEMENTS

##### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

##### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

##### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

##### User Safety Recommendations

###### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

##### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Physical or Chemical Hazards**  
Do not use or store near heat or open flame.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

#### **ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System**

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System is a no-drill trunk injection method that is easy to use. Most trees are treated in as little as 5 minutes or less, allowing applicators to treat trees quickly. There is no need to wait for absorption (translocation); chemical is injected into the cambial area (the active vascular system) of the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat trees year after year, with no threat of long-term or permanent damage to the tree. This system minimizes wounding and promotes long-term tree health and vigor.

#### **Restrictions**

This product is not to be used on trees or shrubs that will produce food within the year following treatment; during the year following treatment, do not use any part of treated trees or shrubs, including sap, as food or feed. Do not inject trees that are less than two inches in diameter. This product contains the antibiotic oxytetracycline. To reduce the development of drug-resistant bacteria and maintain the effectiveness of this and other antibacterial products, this product should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria. This material is not to be used for medical or veterinary purposes.




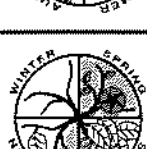
#### **Product Information**

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for non-crop bearing ornamental trees and large woody shrubs. TERRIER™ Systemic Antibiotic [This product] provides seasonal suppression of a variety of diseases including bacterial leaf scorch, fire blight, yellows diseases, phloem necrosis, mycoplasmas, xylem-limited bacteria (*Xylella fastidiosa*, BLS) and some bacterial blight diseases. Late summer or early fall applications provide disease suppression the following season. Some diseases may require repeated yearly application.

Preventative application is more effective than therapeutic treatment in trees showing disease symptoms. Apply as a preventative when other trees in the area are showing symptoms. In trees showing symptoms, begin treatment as soon as possible. Trees in advanced stages of disease development may not respond to treatment. Infected trees will absorb the chemical more slowly due to the vascular damage caused by the disease. If TERRIER™ Systemic Antibiotic [this product] is not absorbed within 24 hours, the tree is considered high risk and has a poor chance of survival.

#### **Dosage**

Inject 1 to 2 ml per every 4" of trunk circumference measured within 12" of the ground using the Wedgle Direct-Inject Tree Injection System. Use Portle® Tips for injecting Sycamores or thick-barked hardwoods such as elms. For other trees, use Wedgle® Tips. Make all injections around the base (or flare) of the tree.

Diseases Treated	Application Timing	
<b>Bacterial Leaf Scorch</b> in Elm, Oak, Sycamore, Oleander, Sweet Gum (Liquidambar) <sup>[1]</sup>	Apply in late summer or early fall for preventive suppression the following season. Applications made in spring (April or May) will suppress current year symptoms.	
<b>Fire Blight</b> in Mountain Ash	Applications are most successful when made in early spring (January through May depending upon location) prior to or during bloom period. Applications made after bloom period will still prevent secondary twig infections. Fall applications are NOT recommended for fire blight suppression.	
<b>Ash Yellows</b> in Ash	Applications for treatment of ash yellows are most successful in the spring and early summer when leaf out has reached at least 50% or more as adequate foliage is needed to assure translocation.	
<b>Phloem Necrosis</b> in Elm, also called Elm Yellow. <sup>[2]</sup>	If phloem necrosis has been identified in nearby trees it is preferable to treat unaffected trees in late summer or early fall for preventive suppression the following season. Applications made in spring MAY suppress current year symptoms, however results on trees with symptoms is inconsistent.	

#### [Disease Notes

- Bacterial Leaf Scorch (BLS)** is a bacterial plant disease caused by a vascular clogging bacterium (*Xylella fastidiosa*) that rapidly multiplies within active plant xylem. Distinct scorch-like leaf symptoms are followed by twig and branch death leading to plant decline and death. BLS bacterium is spread from diseased to healthy plant material during feeding by common urban xylem-feeding insects such as leafhoppers and treehoppers.
- Elms with phloem necrosis exhibit leaves which turn yellow (out of season) and may drop prematurely. On trees that survive over winter, leaves in the spring are small and sparse. Symptoms are quite similar to Dutch Elm Disease, however it is important to distinguish between the two diseases as treatments are different. In Elms with phloem necrosis the entire crown is likely to show symptoms at the same time with symptoms appearing from July to late September. With Dutch Elm Disease, usually one or several small branches in the upper crown show earlier symptoms, which may appear anytime during the growing season.]

#### How to Apply ArborSystems Direct-Inject Chemicals with ArborSystems Wedgle® Direct-Inject Tree Injection System

- Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.
- Measure the circumference of the tree within 12" of the ground. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
- Choose which style and length of ArborSystems Injection Tip is most appropriate for type of tree you are treating.
- The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. If you need to inject a 0.5 ml dose of chemical, move the dose adjustment ring to the 0.5 ml dose adjustment groove.
- Make injections working around base (or flare) of the tree. All injections should be made within 12" of the ground unless otherwise noted.

6. With a smooth motion, firmly squeeze the injection unit handles to deliver chemical into tree. Apply equal pressure on both handles - unequal pressure may bend or break the tip.
7. Continue making injections moving around the tree until the entire tree trunk has been treated.
8. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips or the injection unit.
9. Tips should be cleaned after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedgle Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

#### **Notice of Warranty**

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Wedgle® and Portle® are registered trademarks of ArborSystems  
ArborSystems™, Terrier™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems  
Direct-Inject™ unit is protected by U.S. Patent #5,901,498  
Wedgle® Tip is protected by U.S. Patent #5,239,773  
WedgeChek™ is protected by U.S. Patent #5,797,215  
Portle® Tip is protected by U.S. Patent #7,178,286

*{Box Label}*

#### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch, fire blight, yellows diseases and phloem necrosis on ornamental trees.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

<b>Active Ingredient:</b>	
Oxytetracycline hydrochloride .....	4.3%
<b>Other Ingredients</b> .....	<b>95.7%</b>
<b>Total</b> .....	<b>100.0%</b>

**Keep Out of Reach of Children**

**CAUTION**

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

**Net Contents: 4 fl. oz. (120 ml)**  
[Net Contents: 2 fl oz (60 ml)]  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

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*{Pack Label}*

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The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

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**Net Contents: 4 fl. oz. (120 ml)**

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**EPA Reg. No. 69117-10**

**EPA Est. 69117-NE-1**

**[Sold by:]**

**ArborSystems™**

**The No-Drill Injection Solution**

**[800-698-4641] • [Fax: 402-339-5011]**

**P.O. Box 34645 • Omaha, NE 68134**

*[ ] Denotes alternate/optional language*

*{ } Denotes language that does not appear on market labeling*

*{Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.}*

**ArborSystems™ Wedgle® Direct-Inject™ System**

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased and control of most problems can be seen in as little as three to five days. Also, because no chemical is lost in non-active wood, the Direct-Inject System allows you to use less chemical to achieve high levels of effectiveness; this saves money and reduces chemical waste. The Direct-Inject System injects chemicals into a tree with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter the tree, potential decay never starts and long-term wounding is prevented. The tree's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the tree. When air is allowed into a tree's vascular system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the tree.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree can best use it. No chemical is lost in dead wood.

ArborSystems Direct-Inject chemicals are integral parts of the Wedgle Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject units. Using unauthorized chemicals with the ArborSystems Wedgle Direct-Inject System constitutes a violation of Federal law.

#### Chemical Selection

Your distributor can advise you on the best chemical selections for trees in your area.

[ ] Denotes alternate/optional language

[ ] Denotes language that does not appear on market labeling

13

{Subpart B Label: For Use on Palms}

## **TERRIER™ Systemic Antibiotic**

{ABN: SPRINGER™ Systemic Antibiotic}

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical  
•Easy •No drilling •Saves time and money

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 2 fl oz (60 ml)]  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

### **CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical  
•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]  
P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)  
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EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

#### First Aid

If Swallowed	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on Skin or Clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a> ).	
<b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.	

*{Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}*

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

#### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations

##### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

#### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Physical or Chemical Hazards**  
Do not use or store near heat or open flame.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

#### **ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System**

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System, along with ArborSystems patented Portle® Tips and Palm Tips, is the ideal way to treat palms. This no-drill trunk injection method is easy to use. Palm and Portle Tips have been designed to penetrate the thick outer husks of palms. Several tip options are available allowing you to choose the tip best suited to treat palms of various husk density.

Most palms can be treated in as little as five minutes or less, allowing applicators to make treatments quickly. There is no need to wait for absorption (translocation); chemical is injected into the active portion of the palm without drilling. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat palms repeatedly with no threat of long-term or permanent damage. This system minimizes wounding and promotes long-term plant health and vigor.

#### **Restrictions**

This product is not to be used on palms that will produce food within the year following treatment. Do not use any part of treated palms as food or feed. This product contains the antibiotic oxytetracycline. To reduce the development of drug-resistant bacteria and maintain the effectiveness of this and other antibacterial products, this product should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria. This material is not to be used for medical or veterinary purposes.

#### **Product Information**

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for use on palms. TERRIER™ Systemic Antibiotic [This product] provides suppression of lethal yellows disease (*phytoplasma* disease) in palms.

#### **Symptoms**

Symptoms vary significantly based on the palm species, but generally occur in sequence; fruit drop, flower/seed wilt, excessive yellowing of the canopy starting with the newest fronds and finally death of the palm bud leading to death of the entire plant. Sometimes a younger frond will yellow early in the process. This "flag leaf" is often an early visual symptom, but not present in every case.

#### **Treatment**

Preventative treatments are more effective than therapeutic treatment in palms showing disease symptoms.

As a therapeutic measure, immediately begin applications to palms exhibiting symptoms and continue on a 3- to 4-month treatment schedule. Palms with over 25% discolored leaves are unlikely to respond to treatment. Preventive treatments are recommended to protect palms in areas where lethal yellowing is known or likely to occur. Apply preventive treatments any time during the growing season once every 3 to 4 months.

Tree	Disease	Dosage per Injection Site
Palm	For suppression of Palm Lethal Yellows disease ( <i>Phytoplasma</i> disease)	6 ml per 6" of trunk circumference measured at chest height.

{Optional paragraph format}

Palm: For suppression of palm lethal yellows: Apply 6 ml of TERRIER™ Systemic Antibiotic [this product] per 6" of trunk circumference measured at chest height.

[Palms Susceptible to Lethal Yellowing]	
This chart is only intended as a general guide. Susceptibility may vary depending on your location and evolving conditions. Contact a trained arborist familiar with conditions in the area to determine treatment strategies.	
High susceptibility	Coconut Palm, all cultivars, <i>Cocos nucifera</i> Christmas Palm, <i>Adonidia merrilli</i> Loula/Konna Palm, <i>Pritchardia affinis</i> Thurston Fan Palm, <i>Pritchardia thurstonii</i> Tonga/Figi Fan Palm, <i>Pritchardia pacifica</i>
High/medium susceptibility	Canary Island Date Palm, <i>Phoenix canariensis</i> Clustering Fishtail Palm, <i>Caryota mitis</i> Medjool Date Palm, <i>Phoenix dactylifera</i> Sylvester/Wild Date Palm, <i>Phoenix sylvestris</i>
Medium susceptibility	Aricuriroba, <i>Syragus schizophylla</i> Palmyra Palm, <i>Borassus flabellifer</i> Princess Palm, <i>Dictosperma album</i> Senegal Date Palm, <i>Phoenix reclinata</i> Windmill Palm, <i>Trachycarpus fortunei</i>
Medium/low susceptibility	Chinese Fan Palm, <i>Livistonia chinensis</i> Latan Palm, <i>Latania lontaroides</i> Queen Palm, <i>Syragus romanzoffiana</i> Spindle Palm, <i>Hyophorbe verschaffeltii</i>
Low susceptibility	Washingtonia/Mexican Fan, <i>Washingtonia robusta</i> Triangle Palm, <i>Dypsis decaryi</i>
Undetermined level of susceptibility	Belmore Sentry, Cabada, Cabbage/Sabal, Cliff Date, Footstool, Gebang/Buri, Giant Fishtail, Kentia, Mazari, Miniature Sugar, Palma De Lluvia, Rootspine, Seashore
Species thought to be resistant to Lethal Yellows	Bizmarckai, Foxtail, Royal, Solitaire]

{Information in above chart may be used selectively.}

#### How to Inject Palms with ArborSystems Wedgle® Direct-Inject Tree Injection System

1. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.
2. Measure the circumference of the palm at chest height. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Palms are treated using ArborSystems Palm or Portle Injection Tips, depending on the husk density. Choose which injection tips will work best for the palm you are treating and attach the appropriate tip to the ArborSystems Tip Setter. Using multiple tips will speed the injection process.
4. At chest height, tap the injection tip into the palm using the Tip Setter, then disconnect the setter from the tip leaving the tip in the palm. Repeat until all tips are set in the palm. Do not attempt to insert or remove tips with the injection unit as that is likely to damage the injection unit.
5. Connect the Wedgle Direct-Inject unit to one of the tips already inserted in the palm.

6. With a smooth motion, firmly squeeze the injection unit handles. Apply equal pressure on both handles—unequal pressure may bend or break the tip. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. Repeat until the required amount of chemical has been injected at the injection site.
7. Remove the injection unit from the tip leaving the tip in the palm.
8. Move to the next tip and attach the injection unit to the tip. Continue making injections at all injection sites. After all injections have been completed, use the Tip Setter to remove the tips from the palm. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips.
9. Clean tips after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedgle Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

#### **Notice of Warranty**

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

[Sold by:]

**ArborSystems™**

**The No-Drill Injection Solution**

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Wedgle® Tip is a registered trademark of ArborSystems™

ArborSystems™, Terrier™, Springer™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems

Direct-Inject™ unit is protected by U.S. Patent #5,901,498

Wedgle® Tip is protected by U.S. Patent #5,239,773

WedgeChek™ is protected by U.S. Patent #5,797,215

Portle® Tip is protected by U.S. Patent #7,178,286

*{Box Label}*

**TERRIER™ Systemic Antibiotic**

**For seasonal suppression of lethal yellows (phytoplasma disease) on palms.**

**An ArborSystems™ Direct-Inject™ Chemical**

**•Easy •No drilling •Saves time and money**

<b>Active Ingredient:</b>	
Oxytetracycline hydrochloride .....	4.3%
<b>Other Ingredients</b> .....	<u>95.7%</u>
<b>Total</b> .....	<b>100.0%</b>

**Keep Out of Reach of Children**  
**CAUTION**  
See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

### DIRECTIONS FOR USE

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The ArborSystems Direct-Inject units are designed to be used only with ArborSystems' pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

**Storage and Disposal**

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{Pack Label}

**TERRIER™ Systemic Antibiotic**  
For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical  
•Easy •No drilling •Saves time and money

<b>Active Ingredient:</b>	
Oxytetracycline hydrochloride .....	4.3%
<b>Other Ingredients</b> .....	<u>95.7%</u>
<b>Total</b> .....	<b>100.0%</b>

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*{ } Denotes alternate/optional language*

*{ } Denotes language that does not appear on market labeling*

*{Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.}*

**ArborSystems™ Wedgle® Direct-Inject™ System**

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the active area of the palm. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. The Direct-Inject System injects chemicals into a palm with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter, potential decay never starts and long-term wounding is prevented. The palm's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the palm. When air is allowed into a palm's active system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the palm.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgie® Direct-inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree or palm can best use it.

ArborSystems Direct-Inject chemicals are integral parts of the Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgie Direct-Inject unit. Using unauthorized chemicals with the ArborSystems Direct-Inject System constitutes a violation of Federal law.

[ ] Denotes alternate/optional language

[ } Denotes language that does not appear on market labeling

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{Subpart A Label: For Use on Trees Excluding Palms}

## TERRIER™ Systemic Antibiotic

{Affixed Booklet – Front Panel}

### TERRIER™ Systemic Antibiotic

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

An ArborSystems™ Direct-Inject™ Chemical

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 2 fl oz (60 ml)]

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

Keep Out of Reach of Children

### CAUTION

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – Inside pages}

### TERRIER™ Systemic Antibiotic

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 2 fl oz (60 ml)]

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**NOTIFICATION**

JAN 09 2013

**NOTIFICATION**

JAN 09 2013

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

### First Aid

If Swallowed	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on Skin or Clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a> ).	
<b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.	

*(Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.)*

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Physical or Chemical Hazards**  
Do not use or store near heat or open flame.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

#### **ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System**

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System is a no-drill trunk injection method that is easy to use. Most trees are treated in as little as 5 minutes or less, allowing applicators to treat trees quickly. There is no need to wait for absorption (translocation); chemical is injected into the cambial area (the active vascular system) of the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat trees year after year, with no threat of long-term or permanent damage to the tree. This system minimizes wounding and promotes long-term tree health and vigor.

#### **Restrictions**

This product is not to be used on trees or shrubs that will produce food within the year following treatment; during the year following treatment, do not use any part of treated trees or shrubs, including sap, as food or feed. Do not inject trees that are less than two inches in diameter. This product contains the antibiotic oxytetracycline. To reduce the development of drug-resistant bacteria and maintain the effectiveness of this and other antibacterial products, this product should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria. This material is not to be used for medical or veterinary purposes.





#### **Product Information**

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for non-crop bearing ornamental trees and large woody shrubs. TERRIER™ Systemic Antibiotic [This product] provides seasonal suppression of a variety of diseases including bacterial leaf scorch, fire blight, yellows diseases, phloem necrosis, mycoplasmas, xylem-limited bacteria (*Xylella fastidiosa*, BLS) and some bacterial blight diseases. Late summer or early fall applications provide disease suppression the following season. Some diseases may require repeated yearly application.

Preventative application is more effective than therapeutic treatment in trees showing disease symptoms. Apply as a preventative when other trees in the area are showing symptoms. In trees showing symptoms, begin treatment as soon as possible. Trees in advanced stages of disease development may not respond to treatment. Infected trees will absorb the chemical more slowly due to the vascular damage caused by the disease. If TERRIER™ Systemic Antibiotic [this product] is not absorbed within 24 hours, the tree is considered high risk and has a poor chance of survival.

#### **Dosage**

Inject 1 to 2 ml per every 4" of trunk circumference measured within 12" of the ground using the Wedgle Direct-Inject Tree Injection System. Use Portle® Tips for injecting Sycamores or thick-barked hardwoods such as elms. For other trees, use Wedgle® Tips. Make all injections around the base (or flare) of the tree.

Diseases Treated	Application Timing	
<b>Bacterial Leaf Scorch</b> in Elm, Oak, Sycamore, Oleander, Sweet Gum (Liquidambar) <sup>[1]</sup>	Apply in late summer or early fall for preventive suppression the following season. Applications made in spring (April or May) will suppress current year symptoms.	
<b>Fire Blight</b> in Mountain Ash	Applications are most successful when made in early spring (January through May depending upon location) prior to or during bloom period. Applications made after bloom period will still prevent secondary twig infections. Fall applications are NOT recommended for fire blight suppression.	
<b>Ash Yellows</b> in Ash	Applications for treatment of ash yellows are most successful in the spring and early summer when leaf out has reached at least 50% or more as adequate foliage is needed to assure translocation.	
<b>Phloem Necrosis</b> in Elm, also called Elm Yellow. <sup>[2]</sup>	If phloem necrosis has been identified in nearby trees it is preferable to treat unaffected trees in late summer or early fall for preventive suppression the following season. Applications made in spring MAY suppress current year symptoms, however results on trees with symptoms is inconsistent.	

#### [Disease Notes

- Bacterial Leaf Scorch (BLS)** is a bacterial plant disease caused by a vascular clogging bacterium (*Xylella fastidiosa*) that rapidly multiplies within active plant xylem. Distinct scorch-like leaf symptoms are followed by twig and branch death leading to plant decline and death. BLS bacterium is spread from diseased to healthy plant material during feeding by common urban xylem-feeding insects such as leafhoppers and treehoppers.
- Elms with phloem necrosis** exhibit leaves which turn yellow (out of season) and may drop prematurely. On trees that survive over winter, leaves in the spring are small and sparse. Symptoms are quite similar to Dutch Elm Disease, however it is important to distinguish between the two diseases as treatments are different. In Elms with phloem necrosis the entire crown is likely to show symptoms at the same time with symptoms appearing from July to late September. With Dutch Elm Disease, usually one or several small branches in the upper crown show earlier symptoms, which may appear anytime during the growing season.]

#### How to Apply ArborSystems Direct-Inject Chemicals with ArborSystems Wedgle® Direct-Inject Tree Injection System

- Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.
- Measure the circumference of the tree within 12" of the ground. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
- Choose which style and length of ArborSystems Injection Tip is most appropriate for type of tree you are treating.
- The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. If you need to inject a 0.5 ml dose of chemical, move the dose adjustment ring to the 0.5 ml dose adjustment groove.
- Make injections working around base (or flare) of the tree. All injections should be made within 12" of the ground unless otherwise noted.

6. With a smooth motion, firmly squeeze the injection unit handles to deliver chemical into tree. Apply equal pressure on both handles - unequal pressure may bend or break the tip.
7. Continue making injections moving around the tree until the entire tree trunk has been treated.
8. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips or the injection unit.
9. Tips should be cleaned after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedge Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

#### Notice of Warranty

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Wedge® and Portle® are registered trademarks of ArborSystems

ArborSystems™, Terrier™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems

Direct-Inject™ unit is protected by U.S. Patent #5,901,498

Wedge® Tip is protected by U.S. Patent #5,239,773

WedgeChek™ is protected by U.S. Patent #5,797,215

Portle® Tip is protected by U.S. Patent #7,178,286

*{Box Label}*

#### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch, fire blight, yellows diseases and phloem necrosis on ornamental trees.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

<b>Active Ingredient:</b>	
Oxytetracycline hydrochloride .....	4.3%
<b>Other Ingredients</b> .....	<u>95.7%</u>
<b>Total</b> .....	<b>100.0%</b>

**Keep Out of Reach of Children**  
**CAUTION**  
See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.  
**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 2 fl oz (60 ml)]  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10                      EPA Est. 69117-NE-1

[Sold by:]

**ArborSystems™**  
*The No-Drill Injection Solution*  
[800-698-4641] • [Fax: 402-339-5011]  
P.O. Box 34645 • Omaha, NE 68134

{Pack Label}

**TERRIER™ Systemic Antibiotic**  
For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.  
An ArborSystems™ Direct-Inject™ Chemical  
•Easy •No drilling •Saves time and money

<b>Active Ingredient:</b>	
Oxytetracycline hydrochloride .....	4.3%
<b>Other Ingredients</b> .....	<u>95.7%</u>
<b>Total</b> .....	<b>100.0%</b>

Keep Out of Reach of Children

**CAUTION**

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*(Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.)*

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 2 fl oz (60 ml)]

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10

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[Sold by:]

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[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

*[Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.]*

**ArborSystems™ Wedgle® Direct-Inject™ System**

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased and control of most problems can be seen in as little as three to five days. Also, because no chemical is lost in non-active wood, the Direct-Inject System allows you to use less chemical to achieve high levels of effectiveness; this saves money and reduces chemical waste. The Direct-Inject System injects chemicals into a tree with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter the tree, potential decay never starts and long-term wounding is prevented. The tree's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the tree. When air is allowed into a tree's vascular system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the tree.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree can best use it. No chemical is lost in dead wood.

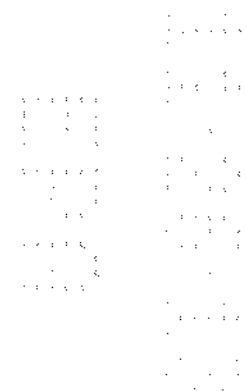
ArborSystems Direct-Inject chemicals are integral parts of the Wedgle Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject units. Using unauthorized chemicals with the ArborSystems Wedgle Direct-Inject System constitutes a violation of Federal law.

#### Chemical Selection

Your distributor can advise you on the best chemical selections for trees in your area.

[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling



{Subpart B Label: For Use on Palms}

## **TERRIER™ Systemic Antibiotic**

{ABN: SPRINGER™ Systemic Antibiotic}

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

**Active Ingredient:**

Oxytetracycline hydrochloride ..... 4.3%

**Other Ingredients** ..... 95.7%

**Total** ..... 100.0%

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 2 fl oz (60 ml)]

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

### **CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 2 fl oz (60 ml)]

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

### First Aid

If Swallowed	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on Skin or Clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

*{Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}*

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Physical or Chemical Hazards**  
Do not use or store near heat or open flame.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

### ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System, along with ArborSystems patented Portle® Tips and Palm Tips, is the ideal way to treat palms. This no-drill trunk injection method is easy to use. Palm and Portle Tips have been designed to penetrate the thick outer husks of palms. Several tip options are available allowing you to choose the tip best suited to treat palms of various husk density.

Most palms can be treated in as little as five minutes or less, allowing applicators to make treatments quickly. There is no need to wait for absorption (translocation); chemical is injected into the active portion of the palm without drilling. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat palms repeatedly with no threat of long-term or permanent damage. This system minimizes wounding and promotes long-term plant health and vigor.

### Restrictions

This product is not to be used on palms that will produce food within the year following treatment. Do not use any part of treated palms as food or feed. This product contains the antibiotic oxytetracycline. To reduce the development of drug-resistant bacteria and maintain the effectiveness of this and other antibacterial products, this product should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria. This material is not to be used for medical or veterinary purposes.

### Product Information

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for use on palms. TERRIER™ Systemic Antibiotic [This product] provides suppression of lethal yellows disease (*phytoplasma* disease) in palms.

### Symptoms

Symptoms vary significantly based on the palm species, but generally occur in sequence; fruit drop, flower/seed wilt, excessive yellowing of the canopy starting with the newest fronds and finally death of the palm bud leading to death of the entire plant. Sometimes a younger frond will yellow early in the process. This "flag leaf" is often an early visual symptom, but not present in every case.

### Treatment

Preventative treatments are more effective than therapeutic treatment in palms showing disease symptoms.

As a therapeutic measure, immediately begin applications to palms exhibiting symptoms and continue on a 3- to 4-month treatment schedule. Palms with over 25% discolored leaves are unlikely to respond to treatment. Preventive treatments are recommended to protect palms in areas where lethal yellowing is known or likely to occur. Apply preventive treatments any time during the growing season once every 3 to 4 months.

Tree	Disease	Dosage per Injection Site
Palm	For suppression of Palm Lethal Yellows disease ( <i>Phytoplasma</i> disease)	6 ml per 6" of trunk circumference measured at chest height.

{Optional paragraph format}

**Palm:** For suppression of palm lethal yellows: Apply 6 ml of TERRIER™ Systemic Antibiotic [this product] per 6" of trunk circumference measured at chest height.

<b>[Palms Susceptible to Lethal Yellowing]</b>	
This chart is only intended as a general guide. Susceptibility may vary depending on your location and evolving conditions. Contact a trained arborist familiar with conditions in the area to determine treatment strategies.	
High susceptibility	Coconut Palm, all cultivars, <i>Cocos nucifera</i> Christmas Palm, <i>Adonidia merrilli</i> Louala/Konna Palm, <i>Pritchardia affinis</i> Thurston Fan Palm, <i>Pritchardia thurstonii</i> Tonga/Fiji Fan Palm, <i>Pritchardia pacifica</i>
High/medium susceptibility	Canary Island Date Palm, <i>Phoenix canariensis</i> Clustering Fishtail Palm, <i>Caryota mitis</i> Medjool Date Palm, <i>Phoenix dactylifera</i> Sylvester/Wild Date Palm, <i>Phoenix sylvestris</i>
Medium susceptibility	Aricuriroba, <i>Syragus schizophylla</i> Palmyra Palm, <i>Borassus flabellifer</i> Princess Palm, <i>Dictosperma album</i> Senegal Date Palm, <i>Phoenix reclinata</i> Windmill Palm, <i>Trachycarpus fortunei</i>
Medium/low susceptibility	Chinese Fan Palm, <i>Livistonia chinensis</i> Latan Palm, <i>Lafania lontaroides</i> Queen Palm, <i>Syragus romanzoffiana</i> Spindle Palm, <i>Hyophorbe verschaffeltii</i>
Low susceptibility	Washingtonia/Mexican Fan, <i>Washingtonia robusta</i> Triangle Palm, <i>Dypsis decaryi</i>
Undetermined level of susceptibility	Belmore Sentry, Cabada, Cabbage/Sabal, Cliff Date, Footstool, Gebang/Buri, Giant Fishtail, Kentia, Mazari, Miniature Sugar, Palma De Lluvia, Rootspine, Seashore
Species thought to be resistant to Lethal Yellows	Bizmarckai, Foxtail, Royal, Solitaire]

{Information in above chart may be used selectively.}

#### How to Inject Palms with ArborSystems Wedgle® Direct-Inject Tree Injection System

1. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.
2. Measure the circumference of the palm at chest height. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Palms are treated using ArborSystems Palm or Portle Injection Tips, depending on the husk density. Choose which injection tips will work best for the palm you are treating and attach the appropriate tip to the ArborSystems Tip Setter. Using multiple tips will speed the injection process.
4. At chest height, tap the injection tip into the palm using the Tip Setter, then disconnect the setter from the tip leaving the tip in the palm. Repeat until all tips are set in the palm. Do not attempt to insert or remove tips with the injection unit as that is likely to damage the injection unit.
5. Connect the Wedgle Direct-Inject unit to one of the tips already inserted in the palm.

6. With a smooth motion, firmly squeeze the injection unit handles. Apply equal pressure on both handles—unequal pressure may bend or break the tip. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. Repeat until the required amount of chemical has been injected at the injection site.
7. Remove the injection unit from the tip leaving the tip in the palm.
8. Move to the next tip and attach the injection unit to the tip. Continue making injections at all injection sites. After all injections have been completed, use the Tip Setter to remove the tips from the palm. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips.
9. Clean tips after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedge Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

#### **Notice of Warranty**

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

[Sold by:]

**ArborSystems™**

**The No-Drill Injection Solution**

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Wedge® Tip is a registered trademark of ArborSystems™

ArborSystems™, Terrier™, Springer™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems

Direct-Inject™ unit is protected by U.S. Patent #5,901,498

Wedge® Tip is protected by U.S. Patent #5,239,773

WedgeChek™ is protected by U.S. Patent #5,797,215

Portle® Tip is protected by U.S. Patent #7,178,286

*{Box Label}*

**TERRIER™ Systemic Antibiotic**

**For seasonal suppression of lethal yellows (phytoplasma disease) on palms.**

**An ArborSystems™ Direct-Inject™ Chemical**

**•Easy •No drilling •Saves time and money**

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

**Keep Out of Reach of Children**

**CAUTION**

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

The ArborSystems Direct-Inject units are designed to be used only with ArborSystems' pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

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*(Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.)*

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 2 fl oz (60 ml)]

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

[Sold by:]

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{Pack Label}

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Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 2 fl oz (60 ml)]  
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EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

[ ] Denotes alternate/optional language

[ ] Denotes language that does not appear on market labeling

*[Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.]*

**ArborSystems™ Wedgle® Direct-Inject™ System**

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the active area of the palm. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. The Direct-Inject System injects chemicals into a palm with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter, potential decay never starts and long-term wounding is prevented. The palm's ability to move water and nutrients, and to store food, is not compromised.



**Receipt for Section 3**

S: 944173      Resubmission: ☐ Yes ☒ No

Regulatory Type: Product Registration - Section 3      Fee For Service: ☐ Yes ☒ No

Application Type: Notification

Company: 69117 ARBORSYSTEMS, INC. ☒

Risk Manager: Registration Division, Risk Management Team 20

Product #: 69117-10      Product Name: TERRIER SYSTEMIC ANTIBIOTIC

Override: ☐

Me Too Section 3: ☐      Me Too Product Name: ☐

Application Date: 22-Nov-2013 ☒      OPP Rec'd Date: 26-Nov-2013 ☒

Front End Date: 26-Nov-2013 ☒      Risk Manager Send Date: 26-Nov-2013 ☒

FFS Due Date: ☐      Negotiated Due Date: ☐

OPP Target Date: ☐

Fast Track: ☐      New Ingredient: ☐

Receipt Description:

Label Notification to add third container size of 2 fl oz (60 mls)

Form A: ☐ Signature Date:       Form B: ☐ Signature Date:

New Ingredient Request Date:

New Ingredient Received Date:

Receipt Content: Paper Label      Des:

View/Edit

Print Letter

Enter More Information

Tracking

\*Product ingredient source information may be entitled to confidential treatment\*



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Kimerlee Young  
RegWest Company, LLC  
8023 West 20<sup>th</sup> Street, Suite A  
Greeley, CO 80634

OCT 24 2013

Subject: Terrier Systemic Antibiotic  
EPA Reg. No. 69117-10  
Notification dated: 9/13/13  
EPA Decision No.: 483560

Dear Ms. Young:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10.


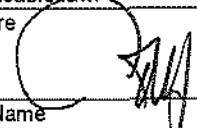
The Agency acknowledges your addition of a third container size (2 fl. oz). The label submitted with the application has been stamped "Notification" and will be placed in our records.

Sincerely,

A handwritten signature in cursive script, appearing to read "Shaja B. Joyner".

Shaja B. Joyner  
Product Manager 20  
Fungicide Branch  
Registration Division (7504P)

Enclosed: Stamped accepted label

 <p>United States Environmental Protection Agency 1200 Pennsylvania Avenue, N.W. Washington, DC 20460-0001</p>		<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number  <h2 style="text-align: center;">Notification</h2>
<b>Application for Pesticide – Section I</b>			
1. Company/Product Number <b>69117-10</b>		2. EPA Product Manager <b>Driss Benmhend</b>	
4. Company/ Product (Name) <b>TERRIER™ Systemic Antibiotic</b>		3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted	
5. Name and Address of Applicant (Include ZIP Code) <b>ArborSystems, Inc. d/b/a ArborSystems c/o RegWest Company, LLC 8203 West 20<sup>th</sup> Street, Suite A Greeley, CO 80634-4696</b> <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i) my product is similar or identical in composition and labeling to:  EPA Reg. No. _____ Product Name _____	
<b>Section – II</b>			
<input type="checkbox"/> Amendment – Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification – Explain below.		<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other – Explain below.	
<b>Explanation:</b> Use additional page(s) if necessary. (For Section I and Section II.)  <h3 style="text-align: center;">Notification of Additional Container Size (2 fl oz [60 ml]).</h3> <p><i>Notification of label change per PR Notice 98-10. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46. No other changes have been made to the labeling or the Confidential Statement of Formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.</i></p>			
<b>Section – III</b>			
1. Material This Product Will Be Packaged In:			
Child Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other [Specify]: _____
*Certification must be submitted		If "Yes" Unit Packaging Wt.	No. Per Container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container <b>4 fl. oz. (120 ml); 2 fl oz (60 ml); and 1 qt. 2 fl. oz. (1000 ml)</b>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Stenciled <input type="checkbox"/> Paper glued <input checked="" type="checkbox"/> Other <b>Self-adhesive; printed boxes</b>		5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling Accompanying Product	
<b>Section - IV</b>			
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application).			
Name <b>Kimberlee Young (formerly: Kim Davis)</b>		Title <b>Consultant/Agent</b>	Telephone No. (include Area Code) <b>(970) 353-0611 kim@regwest.com</b>
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received <div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>(Stamped)</b> </div>
2. Signature 		3. Title <b>Consultant/Agent</b>	
4. Typed Name <b>Kimberlee Young (formerly: Kim Davis)</b>		5. Date <b>September 13, 2013</b>	

9/20

## Notification of Additional Container Size

RegWest  
Company, LLC

September 13, 2013

Mr. Driss Benmhend, Product Manager 20  
Document Processing Desk - **NOTIF**  
Office of Pesticide Programs - **7504P**  
U.S. Environmental Protection Agency  
One Potomac Yard (South Building), Room S-4900  
2777 South Crystal Drive  
Arlington, VA 22202

Dear Mr. Benmhend:

Subject: ArborSystems, Inc., d/b/a ArborSystems  
TERRIER™ System Antibiotic  
EPA Reg. No. 69117-10

On behalf of **ArborSystems**, RegWest Company, LLC is submitting the attached materials as a notification submission of an additional container size. RegWest will act as sole agent in this endeavor.

Attached are the following items:

1. Application for Pesticide: **Other (Notification)**
2. One **Reference Label** (illustrating the additional size)
3. ~~Two~~ **New Labels** (incorporating the additional size)

We are adding a third container size of 2 fl oz (60 mls).

Please contact me 970.353.0611 or kim@regwest.com if you have any questions or require additional information.

Regards,  
RegWest Company, LLC

Kimberlee Young  
(formerly: Kim Davis),  
Consultant/Agent

Attachments

cc: ASI - Doolittle, C.

{Subpart A Label: For Use on Trees Excluding Palms}

## **TERRIER™ Systemic Antibiotic**

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

**An ArborSystems™ Direct-Inject™ Chemical**

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 2 fl oz (60 ml)]

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

### **CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

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[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**NOTIFICATION**

**OCT 24 2013**

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

#### First Aid

If Swallowed	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on Skin or Clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

(Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.)

#### PRECAUTIONARY STATEMENTS

##### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

##### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

##### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

##### User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

##### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Physical or Chemical Hazards**  
Do not use or store near heat or open flame.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear: coveralls over long-sleeved shirts and long pants, chemical-resistant gloves made of any waterproof material, shoes and socks.

#### **ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System**

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System is a no-drill trunk injection method that is easy to use. Most trees are treated in as little as 5 minutes or less, allowing applicators to treat trees quickly. There is no need to wait for absorption (translocation); chemical is injected into the cambial area (the active vascular system) of the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat trees year after year, with no threat of long-term or permanent damage to the tree. This system minimizes wounding and promotes long-term tree health and vigor.

#### **Restrictions**

This product is not to be used on trees or shrubs that will produce food within the year following treatment; during the year following treatment, do not use any part of treated trees or shrubs, including sap, as food or feed. Do not inject trees that are less than two inches in diameter.




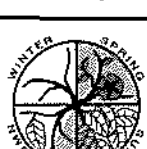
#### **Product Information**

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for non-crop bearing ornamental trees and large woody shrubs. TERRIER™ Systemic Antibiotic [This product] provides seasonal suppression of a variety of diseases including bacterial leaf scorch, fire blight, yellows diseases, phloem necrosis, mycoplasmas, xylem-limited bacteria (*Xylella fastidiosa*, BLS) and some bacterial blight diseases. Late summer or early fall applications provide disease suppression the following season. Some diseases may require repeated yearly application.

Preventative application is more effective than therapeutic treatment in trees showing disease symptoms. Apply as a preventative when other trees in the area are showing symptoms. In trees showing symptoms, begin treatment as soon as possible. Trees in advanced stages of disease development may not respond to treatment. Infected trees will absorb the chemical more slowly due to the vascular damage caused by the disease. If TERRIER™ Systemic

Antibiotic [this product] is not absorbed within 24 hours, the tree is considered high risk and has a poor chance of survival.

Dosage	
Inject 1 to 2 ml per every 4" of trunk circumference measured within 12" of the ground using the Wedgle Direct-Inject Tree Injection System. Use Portle® Tips for injecting Sycamores or thick-barked hardwoods such as elms. For other trees, use Wedgle® Tips. Make all injections around the base (or flare) of the tree.	

Diseases treated	Application Timing	
<b>Bacterial Leaf Scorch</b> in Elm, Oak, Sycamore, Oleander, Sweet Gum (Liquidambar) <sup>[1]</sup>	Apply in late summer or early fall for preventive suppression the following season. Applications made in spring (April or May) will suppress current year symptoms.	
<b>Fire Blight</b> in Mountain Ash	Applications are most successful when made in early spring (January through May depending upon location) prior to or during bloom period. Applications made after bloom period will still prevent secondary twig infections. Fall applications are NOT recommended for fire blight suppression.	
<b>Ash Yellows</b> in Ash	Applications for treatment of ash yellows are most successful in the spring and early summer when leafout has reached at least 50% or more as adequate foliage is needed to assure translocation.	
<b>Phloem Necrosis</b> in Elm, also called Elm Yellow. <sup>[2]</sup>	If phloem necrosis has been identified in nearby trees it is preferable to treat unaffected trees in late summer or early fall for preventive suppression the following season. Applications made in spring MAY suppress current year symptoms, however results on trees with symptoms is inconsistent.	

#### [Disease notes

- Bacterial Leaf Scorch (BLS)** is a bacterial plant disease caused by a vascular clogging bacterium (*Xylella fastidiosa*) that rapidly multiplies within active plant xylem. Distinct scorch-like leaf symptoms are followed by twig and branch death leading to plant decline and death. BLS bacterium is spread from diseased to healthy plant material during feeding by common urban xylem-feeding insects such as leafhoppers and treehoppers.
- Elms with phloem necrosis** exhibit leaves which turn yellow (out of season) and may drop prematurely. On trees that survive over winter, leaves in the spring are small and sparse. Symptoms are quite similar to Dutch Elm Disease, however it is important to distinguish between the two diseases as treatments are different. In Elms with phloem necrosis the entire crown is likely to show symptoms at the same time with symptoms appearing from July to late September. With Dutch Elm Disease, usually one or several small branches in the upper crown show earlier symptoms, which may appear anytime during the growing season.

#### How to Apply ArborSystems Direct-Inject Chemicals with ArborSystems Wedgle® Direct-Inject Tree Injection System

- Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.

2. Measure the circumference of the tree within 12" of the ground. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Choose which style and length of ArborSystems Injection Tip is most appropriate for type of tree you are treating.
4. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. If you need to inject a .5 ml dose of chemical, move the dose adjustment ring to the .5 ml dose adjustment groove.
5. Make injections working around base (or flare) of the tree. All injections should be made within 12" of the ground unless otherwise noted.
6. With a smooth motion, firmly squeeze the injection unit handles to deliver chemical into tree. Apply equal pressure on both handles—unequal pressure may bend or break the tip.
7. Continue making injections moving around the tree until the entire tree trunk has been treated.
8. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips or the injection unit.
9. Tips should be cleaned after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedgle Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*(Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.)*

#### **Notice of Warranty**

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

[Sold by:]

**ArborSystems™**

**The No-Drill Injection Solution**

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Wedgle® and Portle® are registered trademarks of ArborSystems  
ArborSystems™, Terrier™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems  
Direct-Inject™ unit is protected by U.S. Patent #5,901,498  
Wedgle® Tip is protected by U.S. Patent #5,239,773  
WedgeChek™ is protected by U.S. Patent #5,797,215  
Portle® Tip is protected by U.S. Patent #7,178,286

{Box Label}

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

#### **Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

**Keep Out of Reach of Children**

### **CAUTION**

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

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*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

**Net Contents: 4 fl. oz. (120 ml)**

**[Net Contents: 2 fl oz (60 ml)]**

**[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]**

**EPA Reg. No. 69117-10**

**EPA Est. 69117-NE-1**

**[Sold by:]**

**ArborSystems™**

**The No-Drill Injection Solution**

**[800-698-4641] • [Fax: 402-339-5011]**

**P.O. Box 34645 • Omaha, NE 68134**

{Pack Label}

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#### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear: coveralls over long-sleeved shirts and long pants, chemical-resistant gloves made of any waterproof material, shoes and socks.

The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

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[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

*{Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.}*

### ArborSystems™ Wedgle® Direct-Inject™ System

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased and control of most problems can be seen in as little as three to five days. Also, because no chemical is lost in non-active wood, the Direct-Inject System allows you to use less chemical to achieve high levels of effectiveness; this saves money and reduces chemical waste. The Direct-Inject System injects chemicals into a tree with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter the tree, potential decay never starts and long-term wounding is prevented. The tree's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the tree. When air is allowed into a tree's vascular system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the tree.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree can best use it. No chemical is lost in dead wood.

ArborSystems Direct-Inject chemicals are integral parts of the Wedgle Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject units. Using unauthorized chemicals with the ArborSystems Wedgle Direct-Inject System constitutes a violation of Federal law.

#### Chemical Selection

Your distributor can advise you on the best chemical selections for trees in your area.

[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

ArborSystems Wedgle Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree can best use it. No chemical is lost in dead wood.

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Chemical Selection

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{Subpart B Label: For Use on Palms}

## **TERRIER™ Systemic Antibiotic**

{ABN: SPRINGER™ Systemic Antibiotic}

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical  
•Easy •No drilling •Saves time and money

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 2 fl oz (60 ml)]  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children  
CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical  
•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 2 fl oz (60 ml)]  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

#### First Aid

If Swallowed	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on Skin or Clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If In Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

{Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

#### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

#### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Physical or Chemical Hazards**  
Do not use or store near heat or open flame.

### **DIRECTIONS FOR USE**

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#### **ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System**

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System, along with ArborSystems patented Portle® Tips and Palm Tips, is the ideal way to treat palms. This no-drill trunk injection method is easy to use. Palm and Portle Tips have been designed to penetrate the thick outer husks of palms. Several tip options are available allowing you to choose the tip best suited to treat palms of various husk density.

Most palms can be treated in as little as five minutes or less, allowing applicators to make treatments quickly. There is no need to wait for absorption (translocation); chemical is injected into the active portion of the palm without drilling. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat palms repeatedly with no threat of long-term or permanent damage. This system minimizes wounding and promotes long-term plant health and vigor.

#### **Restrictions**

This product is not to be used on palms that will produce food within the year following treatment. Do not use any part of treated palms as food or feed.

#### **Product Information**

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for use on palms. TERRIER™ Systemic Antibiotic [This product] provides suppression of lethal yellows disease (*phytoplasma* disease) in palms.

#### **Symptoms**

Symptoms vary significantly based on the palm species, but generally occur in sequence; fruit drop; flower/seed wilt, excessive yellowing of the canopy starting with the newest fronds and finally death of the palm bud leading to death of the entire plant. Sometimes a younger frond will yellow early in the process. This "flag leaf" is often an early visual symptom, but not present in every case.

### Treatment

Preventative treatments are more effective than therapeutic treatment in palms showing disease symptoms.

As a therapeutic measure, immediately begin applications to palms exhibiting symptoms and continue on a 3- to 4-month treatment schedule. Palms with over 25% discolored leaves are unlikely to respond to treatment.

Preventive treatments are recommended to protect palms in areas where lethal yellowing is known or likely to occur. Apply preventive treatments any time during the growing season once every 3 to 4 months.

Tree	Disease	Dosage per Injection Site
Palm	For suppression of Palm Lethal Yellows disease ( <i>Phytoplasma</i> disease)	6 ml per 6" of trunk circumference measured at chest height.

{Optional paragraph format}

Palm: For suppression of palm lethal yellows: Apply 6 ml of TERRIER™ Systemic Antibiotic [this product] per 6" of trunk circumference measured at chest height.

[Palms Susceptible to Lethal Yellowing]	
This chart is only intended as a general guide. Susceptibility may vary depending on your location and evolving conditions. Contact a trained arborist familiar with conditions in the area to determine treatment strategies.	
High susceptibility	Coconut Palm, all cultivars, <i>Cocos nucifera</i> Christmas Palm, <i>Adonidia merrilli</i> Loula/Konna Palm, <i>Pritchardia affinis</i> Thurston Fan Palm, <i>Pritchardia thurstonii</i> Tonga/Figi Fan Palm, <i>Pritchardia pacifica</i>
High/medium susceptibility	Canary Island Date Palm, <i>Phoenix canariensis</i> Clustering Fishtail Palm, <i>Caryota mitis</i> Medjool Date Palm, <i>Phoenix dactylifera</i> Sylvester/Wild Date Palm, <i>Phoenix sylvestris</i>
Medium susceptibility	Aricuriroba, <i>Syragus schizophylla</i> Palmyra Palm, <i>Borassus flabellifer</i> Princess Palm, <i>Dictosperma album</i> Senegal Date Palm, <i>Phoenix reclinata</i> Windmill Palm, <i>Trachycarpus fortunei</i>
Medium/low susceptibility	Chinese Fan Palm, <i>Livistonia chinensis</i> Latan Palm, <i>Latania lontaroides</i> Queen Palm, <i>Syragus romanzoffiana</i> Spindle Palm, <i>Hyophorbe verschaffeltii</i>
Low susceptibility	Washingtonia/Mexican Fan, <i>Washingtonia robusta</i> Triangle Palm, <i>Dypsis decaryi</i>
Undetermined level of susceptibility	Belmore Sentry, Cabada, Cabbage/Sabal, Cliff Date, Footstool, Gebang/Buri, Giant Fishtail, Kentia, Mazari, Miniature Sugar, Palma De Lluvia, Rootspine, Seashore
Species thought to be resistant to Lethal Yellows	Bizmarckai, Foxtail, Royal, Solitaire]

{Information in above chart may be used selectively.}

### How to Inject Palms with ArborSystems Wedgle® Direct-Inject Tree Injection System

1. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.
2. Measure the circumference of the palm at chest height. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Palms are treated using ArborSystems Palm or Portle Injection Tips, depending on the husk density. Choose which injection tips will work best for the palm you are treating and attach the appropriate tip to the ArborSystems Tip Setter. Using multiple tips will speed the injection process.
4. At chest height, tap the injection tip into the palm using the Tip Setter, then disconnect the setter from the tip leaving the tip in the palm. Repeat until all tips are set in the palm. Do not attempt to insert or remove tips with the injection unit as that is likely to damage the injection unit.
5. Connect the Wedgle Direct-Inject unit to one of the tips already inserted in the palm.
6. With a smooth motion, firmly squeeze the injection unit handles. Apply equal pressure on both handles—unequal pressure may bend or break the tip. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. Repeat until the required amount of chemical has been injected at the injection site.
7. Remove the injection unit from the tip leaving the tip in the palm.
8. Move to the next tip and attach the injection unit to the tip. Continue making injections at all injection sites. After all injections have been completed, use the Tip Setter to remove the tips from the palm. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips.
9. Clean tips after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedgle Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

#### Notice of Warranty

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Wedgle® Tip is a registered trademark of ArborSystems™

ArborSystems™, Terrier™, Springer™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems™

Direct-Inject™ unit is protected by U.S. Patent #5,901,498  
Wedge® Tip is protected by U.S. Patent #5,239,773  
WedgeChek™ is protected by U.S. Patent #5,797,215  
Portle® Tip is protected by U.S. Patent #7,178,286

{Box Label}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

#### **Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

**Keep Out of Reach of Children**

### **CAUTION**

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

The ArborSystems Direct-Inject units are designed to be used only with ArborSystems' pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

### **Storage and Disposal**

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[Net Contents: 2 fl oz (60 ml)]  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

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[ ] Denotes alternate/optional language  
{ } Denotes language that does not appear on market labeling

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*{Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.}*

### ArborSystems™ Wedgle® Direct-Inject™ System

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the active area of the palm. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. The Direct-Inject System injects chemicals into a palm with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter, potential decay never starts and long-term wounding is prevented. The palm's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

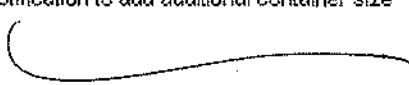
- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the palm. When air is allowed into a palm's active system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the palm.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree or palm can best use it.

ArborSystems Direct-Inject chemicals are integral parts of the Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject unit. Using unauthorized chemicals with the ArborSystems Direct-Inject System constitutes a violation of Federal law.

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Receipt for Section 3			
S:	941172		Resubmission: <input type="radio"/> Yes <input checked="" type="radio"/> No
Regulatory Type:	Product Registration - Section 3	Fee For Service:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Application Type:	Notification		
Company:	69117 ARBORSYSTEMS, INC.		V
Risk Manager:	Registration Division, Risk Management Team 20		
Product #:	69117-10	Product Name:	TERRIER SYSTEMIC ANTIBIOTIC
Override:			
Me Too Section3:		Me Too Product Name:	
Application Date:	13-Sep-2013	OPP Rec'd Date:	16-Sep-2013
Front End Date:	16-Sep-2013	Risk Manager Send Date:	18-Sep-2013
FFS Due Date:		Negotiated Due Date:	
OPP Target Date:			
Fast Track:	<input type="checkbox"/>	New Ingredient:	<input type="checkbox"/>
Receipt Description:		View/Edit	
Label Notification to add additional container size 		New Ingredient Request Date: <input type="text"/> New Ingredient Received Date: <input type="text"/> Form A: <input type="checkbox"/> Signature Date: <input type="text"/>	
		Form B: <input type="checkbox"/> Signature Date: <input type="text"/>	

Print Letter  
 Enter More Information  
 Tracking

Receipt Content  
 Paper Label  
 <  >

\*Product ingredient source information may be entitled to confidential treatment\*

{Subpart A Label: For Use on Trees Excluding Palms}

## **TERRIER™ Systemic Antibiotic**

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

An ArborSystems™ Direct-Inject™ Chemical

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 2 fl oz (60 ml)]  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

### **CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

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EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

#### First Aid

<b>If Swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in Eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

{Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

#### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

#### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Physical or Chemical Hazards**  
Do not use or store near heat or open flame.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear: coveralls over long-sleeved shirts and long pants, chemical-resistant gloves made of any waterproof material, shoes and socks.

#### **ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System**

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System is a no-drill trunk injection method that is easy to use. Most trees are treated in as little as 5 minutes or less, allowing applicators to treat trees quickly. There is no need to wait for absorption (translocation); chemical is injected into the cambial area (the active vascular system) of the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat trees year after year, with no threat of long-term or permanent damage to the tree. This system minimizes wounding and promotes long-term tree health and vigor.

#### **Restrictions**

This product is not to be used on trees or shrubs that will produce food within the year following treatment; during the year following treatment, do not use any part of treated trees or shrubs, including sap, as food or feed. Do not inject trees that are less than two inches in diameter.





#### **Product Information**

**TERRIER™ Systemic Antibiotic** [This product] is a ready-to-use antibiotic for non-crop bearing ornamental trees and large woody shrubs. TERRIER™ Systemic Antibiotic [This product] provides seasonal suppression of a variety of diseases including bacterial leaf scorch, fire blight, yellows diseases, phloem necrosis, mycoplasmas, xylem-limited bacteria (*Xylella fastidiosa*, BLS) and some bacterial blight diseases. Late summer or early fall applications provide disease suppression the following season. Some diseases may require repeated yearly application.

Preventative application is more effective than therapeutic treatment in trees showing disease symptoms. Apply as a preventative when other trees in the area are showing symptoms. In trees showing symptoms, begin treatment as soon as possible. Trees in advanced stages of disease development may not respond to treatment. Infected trees will absorb the chemical more slowly due to the vascular damage caused by the disease. If TERRIER™ Systemic

Antibiotic [this product] is not absorbed within 24 hours, the tree is considered high risk and has a poor chance of survival.

Dosage	
Inject 1 to 2 ml per every 4" of trunk circumference measured within 12" of the ground using the Wedgle Direct-Inject Tree Injection System. Use Portle® Tips for injecting Sycamores or thick-barked hardwoods such as elms. For other trees, use Wedgle® Tips. Make all injections around the base (or flare) of the tree.	

Diseases treated	Application Timing	
<b>Bacterial Leaf Scorch</b> in Elm, Oak, Sycamore, Oleander, Sweet Gum (Liquidambar) <sup>[1]</sup>	Apply in late summer or early fall for preventive suppression the following season. Applications made in spring (April or May) will suppress current year symptoms.	
<b>Fire Blight</b> in Mountain Ash	Applications are most successful when made in early spring (January through May depending upon location) prior to or during bloom period. Applications made after bloom period will still prevent secondary twig infections. Fall applications are NOT recommended for fire blight suppression.	
<b>Ash Yellows</b> in Ash	Applications for treatment of ash yellows are most successful in the spring and early summer when leafout has reached at least 50% or more as adequate foliage is needed to assure translocation.	
<b>Phloem Necrosis</b> in Elm, also called Elm Yellow. <sup>[2]</sup>	If phloem necrosis has been identified in nearby trees it is preferable to treat unaffected trees in late summer or early fall for preventive suppression the following season. Applications made in spring MAY suppress current year symptoms, however results on trees with symptoms is inconsistent.	

#### [Disease notes

- Bacterial Leaf Scorch (BLS)** is a bacterial plant disease caused by a vascular clogging bacterium (*Xylella fastidiosa*) that rapidly multiplies within active plant xylem. Distinct scorch-like leaf symptoms are followed by twig and branch death leading to plant decline and death. BLS bacterium is spread from diseased to healthy plant material during feeding by common urban xylem-feeding insects such as leafhoppers and treehoppers.
- Elms with phloem necrosis exhibit leaves which turn yellow (out of season) and may drop prematurely. On trees that survive over winter, leaves in the spring are small and sparse. Symptoms are quite similar to Dutch Elm Disease, however it is important to distinguish between the two diseases as treatments are different. In Elms with phloem necrosis the entire crown is likely to show symptoms at the same time with symptoms appearing from July to late September. With Dutch Elm Disease, usually one or several small branches in the upper crown show earlier symptoms, which may appear anytime during the growing season.]

#### How to Apply ArborSystems Direct-Inject Chemicals with ArborSystems Wedgle® Direct-Inject Tree Injection System

- Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.

2. Measure the circumference of the tree within 12" of the ground. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Choose which style and length of ArborSystems Injection Tip is most appropriate for type of tree you are treating.
4. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. If you need to inject a .5 ml dose of chemical, move the dose adjustment ring to the .5 ml dose adjustment groove.
5. Make injections working around base (or flare) of the tree. All injections should be made within 12" of the ground unless otherwise noted.
6. With a smooth motion, firmly squeeze the injection unit handles to deliver chemical into tree. Apply equal pressure on both handles—unequal pressure may bend or break the tip.
7. Continue making injections moving around the tree until the entire tree trunk has been treated.
8. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips or the injection unit.
9. Tips should be cleaned after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedgle Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

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[Sold by:]

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Wedgle® Tip is protected by U.S. Patent #5,239,773  
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### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

**An ArborSystems™ Direct-Inject™ Chemical**  
•Easy •No drilling •Saves time and money

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

**Keep Out of Reach of Children**

### **CAUTION**

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear: coveralls over long-sleeved shirts and long pants, chemical-resistant gloves made of any waterproof material, shoes and socks.

The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

### Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

**Net Contents: 4 fl. oz. (120 ml)**

**[Net Contents: 2 fl oz (60 ml)]**

**[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]**

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

*{Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.}*

### ArborSystems™ Wedgle® Direct-Inject™ System

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased and control of most problems can be seen in as little as three to five days. Also, because no chemical is lost in non-active wood, the Direct-Inject System allows you to use less chemical to achieve high levels of effectiveness; this saves money and reduces chemical waste. The Direct-Inject System injects chemicals into a tree with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter the tree, potential decay never starts and long-term wounding is prevented. The tree's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the tree. When air is allowed into a tree's vascular system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the tree.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree can best use it. No chemical is lost in dead wood.

ArborSystems Direct-Inject chemicals are integral parts of the Wedgle Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject units. Using unauthorized chemicals with the ArborSystems Wedgle Direct-Inject System constitutes a violation of Federal law.

## Chemical Selection

Your distributor can advise you on the best chemical selections for trees in your area.

[ [Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

[illegible]

{Subpart B Label: For Use on Palms}

## TERRIER™ Systemic Antibiotic

{ABN: SPRINGER™ Systemic Antibiotic}

{Affixed Booklet – Front Panel}

### TERRIER™ Systemic Antibiotic

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

**Active Ingredient:**

Oxytetracycline hydrochloride ..... 4.3%

**Other Ingredients** ..... 95.7%

**Total** ..... 100.0%

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 2 fl oz (60 ml)]

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

Keep Out of Reach of Children

### CAUTION

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

### TERRIER™ Systemic Antibiotic

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 2 fl oz (60 ml)]

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EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

### First Aid

If Swallowed	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on Skin or Clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

(Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.)

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Physical or Chemical Hazards**  
Do not use or store near heat or open flame.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 2 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear: coveralls over long-sleeved shirts and long pants, chemical-resistant gloves made of any waterproof material, shoes and socks.

#### **ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System**

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System, along with ArborSystems patented Portle® Tips and Palm Tips, is the ideal way to treat palms. This no-drill trunk injection method is easy to use. Palm and Portle Tips have been designed to penetrate the thick outer husks of palms. Several tip options are available allowing you to choose the tip best suited to treat palms of various husk density.

Most palms can be treated in as little as five minutes or less, allowing applicators to make treatments quickly. There is no need to wait for absorption (translocation); chemical is injected into the active portion of the palm without drilling. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat palms repeatedly with no threat of long-term or permanent damage. This system minimizes wounding and promotes long-term plant health and vigor.

#### **Restrictions**

This product is not to be used on palms that will produce food within the year following treatment. Do not use any part of treated palms as food or feed.

#### **Product Information**

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for use on palms. TERRIER™ Systemic Antibiotic [This product] provides suppression of lethal yellows disease (*phytoplasma* disease) in palms.

#### **Symptoms**

Symptoms vary significantly based on the palm species, but generally occur in sequence; fruit drop, flower/seed wilt, excessive yellowing of the canopy starting with the newest fronds and finally death of the palm. Death of the entire plant. Sometimes a younger frond will yellow early in the process. This "flag leaf" is often an early visual symptom, but not present in every case.

### Treatment

Preventative treatments are more effective than therapeutic treatment in palms showing disease symptoms.

As a therapeutic measure, immediately begin applications to palms exhibiting symptoms and continue on a 3- to 4-month treatment schedule. Palms with over 25% discolored leaves are unlikely to respond to treatment.

Preventive treatments are recommended to protect palms in areas where lethal yellowing is known or likely to occur. Apply preventive treatments any time during the growing season once every 3 to 4 months.

Tree	Disease	Dosage per Injection Site
Palm	For suppression of Palm Lethal Yellows disease ( <i>Phytoplasma</i> disease)	6 ml per 6" of trunk circumference measured at chest height.

{Optional paragraph format}

Palm: For suppression of palm lethal yellows: Apply 6 ml of TERRIER™ Systemic Antibiotic [this product] per 6" of trunk circumference measured at chest height.

[Palms Susceptible to Lethal Yellowing]	
This chart is only intended as a general guide. Susceptibility may vary depending on your location and evolving conditions. Contact a trained arborist familiar with conditions in the area to determine treatment strategies.	
High susceptibility	Coconut Palm, all cultivars, <i>Cocos nucifera</i> Christmas Palm, <i>Adonidia merrilli</i> Loulai/Konna Palm, <i>Pritchardia affinis</i> Thurston Fan Palm, <i>Pritchardia thurstonii</i> Tonga/Figi Fan Palm, <i>Pritchardia pacifica</i>
High/medium susceptibility	Canary Island Date Palm, <i>Phoenix canariensis</i> Clustering Fishtail Palm, <i>Caryota mitis</i> Medjool Date Palm, <i>Phoenix dactylifera</i> Sylvester/Wild Date Palm, <i>Phoenix sylvestris</i>
Medium susceptibility	Aricuriroba, <i>Syragus schizophylla</i> Palmyra Palm, <i>Borassus flabellifer</i> Princess Palm, <i>Dictosperma album</i> Senegal Date Palm, <i>Phoenix reclinata</i> Windmill Palm, <i>Trachycarpus fortunei</i>
Medium/low susceptibility	Chinese Fan Palm, <i>Livistonia chinensis</i> Latan Palm, <i>Latania lontaroides</i> Queen Palm, <i>Syragus romanzoffiana</i> Spindle Palm, <i>Hyophorbe verschaffeltii</i>
Low susceptibility	Washingtonia/Mexican Fan, <i>Washingtonia robusta</i> Triangle Palm, <i>Dypsis decaryi</i>
Undetermined level of susceptibility	Belmore Sentry, Cabada, Cabbage/Sabal, Cliff Date, Footstool, Gebang/Buri, Giant Fishtail, Kentia, Mazari, Miniature Sugar, Palma De Lluvia, Rootspine, Seashore
Species thought to be resistant to Lethal Yellows	Bizmarckai, Foxtail, Royal, Solitaire]

{Information in above chart may be used selectively.}

### How to Inject Palms with ArborSystems Wedgle® Direct-Inject Tree Injection System

1. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.
2. Measure the circumference of the palm at chest height. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Palms are treated using ArborSystems Palm or Portle Injection Tips, depending on the husk density. Choose which injection tips will work best for the palm you are treating and attach the appropriate tip to the ArborSystems Tip Setter. Using multiple tips will speed the injection process.
4. At chest height, tap the injection tip into the palm using the Tip Setter, then disconnect the setter from the tip leaving the tip in the palm. Repeat until all tips are set in the palm. Do not attempt to insert or remove tips with the injection unit as that is likely to damage the injection unit.
5. Connect the Wedgle Direct-Inject unit to one of the tips already inserted in the palm.
6. With a smooth motion, firmly squeeze the injection unit handles. Apply equal pressure on both handles—unequal pressure may bend or break the tip. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. Repeat until the required amount of chemical has been injected at the injection site.
7. Remove the injection unit from the tip leaving the tip in the palm.
8. Move to the next tip and attach the injection unit to the tip. Continue making injections at all injection sites. After all injections have been completed, use the Tip Setter to remove the tips from the palm. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips.
9. Clean tips after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedgle Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

#### Notice of Warranty

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Wedgle® Tip is a registered trademark of ArborSystems™

ArborSystems™, Temier™, Springer™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems

Direct-Inject™ unit is protected by U.S. Patent #5,901,498  
Wedge® Tip is protected by U.S. Patent #5,239,773  
WedgeChek™ is protected by U.S. Patent #5,797,215  
Portle® Tip is protected by U.S. Patent #7,178,286

{Box Label}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical  
•Easy •No drilling •Saves time and money

**Active Ingredient:**

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Other Ingredients .....	95.7%
Total .....	100.0%

**Keep Out of Reach of Children**

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The ArborSystems Direct-Inject units are designed to be used only with ArborSystems' pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

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EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

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{Pack Label}

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ArborSystems Direct-Inject chemicals are integral parts of the Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject unit. Using unauthorized chemicals with the ArborSystems Direct-Inject System constitutes a violation of Federal law.

[ ] Denotes alternate/optional language  
{ } Denotes language that does not appear on market labeling

## Final Printed Labeling



May 17, 2013

Mr. Driss Benmhend, Acting Product Manager 20  
Document Processing Desk – **FPL NOTIF**  
Office of Pesticide Programs – **7504P**  
U.S. Environmental Protection Agency  
One Potomac Yard (South Building), Room S-4900  
2777 South Crystal Drive  
Arlington, VA 22202

Dear Mr. Benmhend:

**Subject:** ArborSystems, Inc., d/b/a ArborSystems  
Terrier™ Systemic Antibiotic  
EPA Reg. No. 69117-10  
Agency Letter Dated March 7, 2013

On behalf of **ArborSystems**, RegWest Company, LLC is submitting the attached materials as a notification submission of final printed labeling per the Agency's letter dated March 7, 2013. RegWest will act as sole agent in this endeavor.


Attached are the following:

1. Application for Pesticide: **Other (Notification)**
2. One market label for each product

Final printed labeling is submitted herewith for "Terrier™ Systemic Antibiotic" and the additional brand name product "Springer™ Systemic Antibiotic".

Please contact me at 970.353.0611 or kim@regwest.com if you have any questions or require additional information.

Regards,  
RegWest Company, LLC

  
Kimberlee Young  
(formerly: Kim Davis),  
Consultant/Agent

Attachments

cc: ASI – Doolittle, C. and Frisina, M.

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060.

<b>United States</b> <b>Environmental Protection Agency</b> 1200 Pennsylvania Avenue, N.W. Washington, DC 20460-0001		<input type="checkbox"/> <b>Registration</b> <input type="checkbox"/> <b>Amendment</b> <input checked="" type="checkbox"/> <b>Other</b>	OPP Identifier Number  <div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold;">Notification</div>
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Application for Pesticide – Section I

1. Company/Product Number <div style="text-align: center; font-weight: bold;">69117-10</div>	2. EPA Product Manager <div style="text-align: center; font-weight: bold;">Driss Benmhend</div>
4. Company/Product (Name) <div style="text-align: center; font-weight: bold;">Terrier™ Systemic Antibiotic</div>	3. Proposed Classification <div style="display: flex; justify-content: space-between;"> <span><input checked="" type="checkbox"/> None</span> <span><input type="checkbox"/> Restricted</span> </div>

5. Name and Address of Applicant (Include ZIP Code) <b>ArborSystems, Inc. d/b/a ArborSystems</b> <b>c/o RegWest Company, LLC</b> <b>8203 West 20<sup>th</sup> Street, Suite A</b> <b>Greeley, CO 80634-4696</b> <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i) my product is similar or identical in composition and labeling to: <div style="background-color: black; height: 40px; width: 100%;"></div>
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Section – II

<input type="checkbox"/> Amendment – Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input type="checkbox"/> Notification – Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated <b>03/07/2013</b> <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other – Explain below.
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**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

Final printed labeling per the Agency's letter dated March 7, 2013.

Notification of label change per PR Notice 98-10. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46. No other changes have been made to the labeling or the Confidential Statement of Formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section – III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child Resistant Packaging	Unit Packaging	Water Soluble Packaging			
<input type="checkbox"/> Yes*	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes		<input type="checkbox"/> Metal	
<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Plastic	
*Certification must be submitted				<input type="checkbox"/> Glass	
				<input checked="" type="checkbox"/> Paper	
				<input checked="" type="checkbox"/> Other (Specify): <b>Foil Pouch</b>	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
<input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4 fl. oz. (120 ml) and 1 qt. 2 fl. oz. (1000 ml)	<input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling Accompanying Product

6. Manner in Which Label is Affixed to Product	<input type="checkbox"/> Lithograph <input type="checkbox"/> Stenciled <input checked="" type="checkbox"/> Paper glued <input checked="" type="checkbox"/> Other <b>Self-adhesive booklet</b>
------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application).

Name <b>Kimberlee Young</b> (formerly: Kim Davis)	Title <b>Consultant/Agent</b>	Telephone No. (Include Area Code) <b>(970) 353-0611</b> <b>kimi@regwest.com</b>
---------------------------------------------------------	----------------------------------	---------------------------------------------------------------------------------------

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature 	3. Title <b>Consultant/Agent</b>
4. Typed Name <b>Kimberlee Young</b> (formerly: Kim Davis)	5. Date <b>May 17, 2013</b>

6. Date Application Received  

(Stamped)

## DISEASE NOTES

1. **Bacterial Leaf Scorch (BLS)** is a bacterial plant disease caused by a vascular clogging bacterium (*Xylella fastidiosa*) that rapidly multiplies within active plant xylem. Distinct scorch-like leaf symptoms are followed by twig and branch death leading to plant decline and death. BLS bacterium is spread from diseased to healthy plant material during feeding by common urban xylem-feeding insects such as leafhoppers and treehoppers.

2. **Elms with phloem necrosis** exhibit leaves which turn yellow (out of season) and may drop prematurely. On trees that survive over winter, leaves in the spring are small and sparse. Symptoms are quite similar to Dutch Elm Disease, however it is important to distinguish between the two diseases as treatments are different. In Elms with phloem necrosis the entire crown is likely to show symptoms at the same time with symptoms appearing from July to late September. With Dutch Elm Disease, usually one or several small branches in the upper crown show earlier symptoms, which may appear any time during the growing season.

## HOW TO APPLY ARBORSYSTEMS DIRECT-INJECT CHEMICALS WITH ARBORSYSTEMS WEDGELO® DIRECT-INJECT TREE INJECTION SYSTEM

1. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for this WedgeLo Direct-Inject system.
2. Measure the circumference of the tree within 12" of the ground. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Choose which style and length of ArborSystems Injection Tip is most appropriate for type of tree you are treating.
4. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. If you need to inject a .5 ml dose of chemical, move the dose adjustment ring to the .5 ml dose adjustment groove.

5. Make injections working around base (or flare) of the tree. All injections should be made within 12" of the ground unless otherwise noted.

6. With a smooth motion, firmly squeeze the injection unit handles to deliver chemical into tree. Apply equal pressure on both handles—unequal pressure may bend or break the tip.

7. Continue making injections moving around the tree until the entire tree trunk has been treated.

8. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips or the injection unit.

9. Tips should be cleaned after each use by submerging in alcohol or diluted bleach.

10. At the end of the day, water flush the WedgeLo Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (<45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods.

**Pesticide Disposal:** Wastes (resulting from the use of this product) may be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if allowable, or dispose of empty pack in a sanitary landfill or by incineration.

NOT REVIEWED  
In Accordance with PR Notice 82-2  
Based on Draft Labeling Dated  
3-7-13

Keep Out of Reach of Children

## CAUTION

See label for first aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

## TERRIER™ Systemic Antibiotic

An ArborSystems™ Direct-Inject™ Chemical

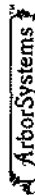
For suppression of certain diseases including bacterial leaf scorch, the blight, yellows diseases and other necrosis on ornamental trees.

## ACTIVE INGREDIENT:

Oxytetracycline hydrochloride

4.3%  
65.7%  
1 and 100%

INGREDIENTS



The WedgeLo Injection Solution

800.698.4341 • Fax: 432.323.5001  
P.O. Box 31641 • Omaha, NE 68134

## NOTICE OF WARRANTY

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

WedgeLo and Fungus are registered trademarks of ArborSystems.

ArborSystems™, WedgeLo™, Direct-Inject™ and WedgeLoDirect™ are trademarks of ArborSystems.

Direct-Inject™ and Lo are protected by U.S. Patent #5,901,458

WedgeLo™ is protected by U.S. Patent #5,238,773

WedgeLoDirect™ is protected by U.S. Patent #5,787,215

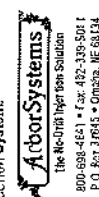
Fungus™ is protected by U.S. Patent #5,133,276

# TERRIER™ Systemic Antibiotic

An ArborSystems™ Direct-Inject™ Chemical  
• Easy • No Drilling • Saves Time and Money

For suppression of certain diseases including bacterial leaf scorch, fire blight, yellowing diseases and phloem necrosis on ornamental trees.  
Intended for use by arborists/applcators, grounds maintenance personnel and landscapers.

To be used only with the  
ArborSystems Wedgie® Direct-Inject™ Tree Injection System.



EPA Reg. No. 69117-10 EPA Est. 69117-NE-1

## FIRST AID

If Swallowed: Immediately call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If on Skin or Clothing: Take off contaminated clothing. Immediately rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: [www.npic.orst.edu](http://www.npic.orst.edu)).

Note to Physician: There is no specific antidote available. Treat patient symptomatically.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category Q). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

### PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

### USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## USER SAFETY RECOMMENDATIONS

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### ARBORSYSTEMS™ WEDGIE®

**DIRECT-INJECT™ TREE INJECTION SYSTEM™**  
The ArborSystems™ Wedgie® Direct-Inject™ Tree Injection System is a no-drill trunk injection method that is easy to use. Most trees are treated in as little as 5 minutes or less, allowing applicators to treat trees quickly. There is no need to wait for absorption (translocation); chemical is injected into the cambial area (the active vascular system) of the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat trees year after year, with no threat of long-term or permanent damage to the tree. This system minimizes wounding and promotes long-term tree health and vigor.

## RESTRICTIONS

This product is not to be used on trees or shrubs that will produce food within the year following treatment; during the year following treatment, do not use any part of treated trees or shrubs, including sap, as food or feed. Do not inject trees that are less than two inches in diameter.

## PRODUCT INFORMATION

**TERRIER™** Systemic Antibiotic is a ready-to-use antibiotic for non-crop bearing ornamental trees and large woody shrubs. **TERRIER™** Systemic Antibiotic provides seasonal suppression of a variety of diseases including bacterial leaf scorch, fire blight, yellowing diseases, phloem necrosis, mycoplasmas, xylem-limited bacteria (Xylella fastidiosa, BLS) and some bacterial blight diseases. Late summer or early fall applications provide disease suppression the following season. Some diseases may require repeated yearly application.

Preventative application is more effective than therapeutic treatment in trees showing disease symptoms. Apply as a preventative when other trees in the area are showing symptoms. In trees showing symptoms, begin treatment as soon as possible. Trees in advanced stages of disease development may not respond to treatment. Infected trees will absorb the chemical more slowly due to the vascular damage caused by the disease. If **TERRIER™** Systemic Antibiotic is not absorbed within 24 hours, the tree is considered high risk and has a poor chance of survival.

Diseases Treated		Application Timing	
<b>Bacterial Leaf Scorch</b> in Elm, Oak, Sycamore, Oleaster, Sweet Gum (Liquidambar) in		Apply in late summer or early fall for preventive suppression the following season. Applications made in spring (April or May) will suppress current year symptoms.	
<b>Fire Blight</b> in Mountain Ash		Applications are most successful when made in early spring (January through May depending upon location) prior to or during bloom period. Applications made after bloom period will still prevent secondary twig infections. Fall applications are NOT recommended for fire blight suppression.	
<b>Ash Yellows</b> in Ash		Applications for treatment of ash yellows are most successful in the spring and early summer when leafout has reached at least 50% or more as adequate foliage is needed to assure translocation.	
<b>Phloem Necrosis</b> in Elm, also called Elm Yellow PI		If phloem necrosis has been identified in nearby trees it is preferable to treat unaffected trees in late summer or early fall for preventive suppression the following season. Applications made in spring MAY suppress current year symptoms, however results on trees with symptoms is inconsistent.	

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains

specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear coveralls over long-sleeved shirts and long pants, chemical-resistant gloves made of any waterproof material, shoes and socks.

# **TERRIER™** Systemic Antibiotic

## **TERRIER™** Systemic Antibiotic

An ArborSystems™ Direct-Inject™ Chemical  
• Easy • No Drilling • Saves Time and Money

For suppression of certain diseases including bacterial leaf scorch, fire blight, yellows diseases and phloem necrosis on ornamental trees.

### ACTIVE INGREDIENT:

Oxytetracycline hydrochloride .....	4.3%
OTHER INGREDIENTS .....	95.7%
<b>Total</b>	<b>100.0%</b>

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. The ArborSystems Wedgie Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

IR\_PL\_13-1

## **Keep Out of Reach of Children CAUTION**

See booklet for First Aid, additional  
Precautionary Statements  
and complete Directions for Use.

Net Contents: 4 fl oz (120 ml)  
EPA Reg. No. 69117-1d  
EPA Est. 69117-NE-1

**ArborSystems**  
The No-Prill Injection Solution

800-698-4641 • Fax: 402-339-5011  
P.O. Box 34645 • Omaha, NE 68134

**Use within 6 months of the  
container-stamped packaged date.**

## TERRIER™ Systemic Antibiotic

An ArborSystems™ Direct-Inject™ Chemical

## TERRIER™ Systemic Antibiotic

for suppression of certain diseases including bacterial leaf scorch, fire blight, yellows diseases and phloem necrosis on ornamental trees.

### ACTIVE INGREDIENT:

Oxytetracycline hydrochloride . . . . . 4.3%

OTHER INGREDIENTS . . . . . 95.7%

Total 100.0%

**Keep Out of Reach of Children**

### CAUTION

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

The ArborSystems Wedge Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

Net Contents: 4 fl oz (120 ml)  
EPA Reg. No. 69117-10  
EPA Est. 69117-NE-1



800-698-4641 • Fax: 402-339-5011  
P.O. Box 34645 • Omaha, NE 68134  
TR\_PXL\_t3-t

**Use within 6 months of the  
container-stamped packaged date.**

## **TERRIER™** **Systemic Antibiotic**

An ArborSystems™ Direct-Inject™ Chemical

## **TERRIER™** **Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch, the  
plight, yellows diseases and phloem necrosis on ornamental trees.

### **ACTIVE INGREDIENT:**

Oxytetracycline hydrochloride . . . . . 4.3%  
**OTHER INGREDIENTS** . . . . . 95.7%

Total 100.0%

**Keep Out of Reach of Children**

### **CAUTION**

See booklet for First Aid, additional Precautionary  
Statements and complete Directions for Use.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsis-  
tent with its labeling.

Do not apply this product in a way that will contact workers or other  
persons, either directly or through drift. Only protected handlers may  
be in the area during application. For any requirements specific to your  
State or Tribe, consult the agency responsible for pesticide regulation.

The ArborSystems Wedgite direct-inject unit is designed to be used  
only with ArborSystems pre-packed chemicals. Tampering with packs  
or contents may cause non-warranted damage to your injection system.

### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in  
an upright position. Do not expose material to temperatures (>85°F)  
for prolonged periods. **Pesticide Disposal:** Wastes resulting from  
the use of this product may be disposed of on site or at an approved  
waste disposal facility. **Container Handling:** Non-refillable container;  
do not reuse or refill this container. Completely empty pack into appli-  
cation equipment, then offer for recycling, if available, or dispose of  
empty pack in a sanitary landfill or by incineration.

Net Contents: 1 qt 2 fl oz (1000 ml)

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

**ArborSystems™**  
the No-Drill Injection Solution

800-698-4641 • Fax: 402-339-5011

P.O. Box 34645 • Omaha, NE 68134

TR\_IMS\_13-t

**Use within 6 months of the  
container-stamped packaged date.**

### HOW TO INJECT PALMS WITH ARBORSYSTEMS WEDGE® DIRECT-INJECT TREE INJECTION SYSTEM

1. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedge Direct-Inject system.

2. Measure the circumference of the palm at chest height. Follow the label directions and application dosages in this booklet to determine the number of injections to be injected at each site.

3. Palms are treated using ArborSystems Palm or Foliar Injection Tips, depending on the trunk density. Choose which injection tips will work best for the palm you are treating and attach the appropriate tip to the ArborSystems Tip Setter. Using multiple tips will speed the injection process.

4. At chest height, top the injection tip into the palm using the Tip Setter, then disconnect the setter from the tip leaving the tip in the palm. Repeat until all tips are set in the palm. Do not attempt to insert or remove tips with the injection unit as that is likely to damage the injection unit.

5. Connect the Wedge Direct-Inject unit to one of the tips already inserted in the palm.

6. With a smooth motion, firmly squeeze the injection unit handles. Apply equal pressure on both handles—unequal pressure may bend or break the tip. The injection unit is preset to deliver a 3 ml dose of chemical with each full stroke of the handles. Repeat until the required amount of chemical has been injected at the injection site.

7. Remove the injection unit from the tip leaving the tip in the palm.

8. Move to the next tip and attach the injection unit to the tip. Continue making rocking motions as that may damage tips. Use a straight removal motion. Avoid use a straight removal motion. Avoid palm. When removing tips from the Tip Setter to remove the tips from the injections have been completed, use the injections at all injection sites. After all injections unit to the tip. Continue making rocking motions as that may damage tips.

9. Clean tips after each use by submerging in alcohol or diluted bleach.

10. At the end of the day, water flush the Wedge Direct-Inject unit to prevent clogging.

Avoiding chemical wastes: Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 3 ml doses with the chemical (a maximum of 6 ml) after the chemical is removed.

**Storage and disposal:** Do not contaminate water, food or feed by storage or disposal.

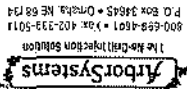
**Pesticide Storage:** Store in a cool (<45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Non-refillable containers do not reuse or refill this container. Completely empty pack into appropriate equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

Wedge® Tip is a registered trademark of ArborSystems. ArborSystems™, Spray™, Direct-Inject™ and WedgeDirect™ are trademarks of ArborSystems. Direct-Inject™ unit is protected by U.S. Patent #5,591,458. Wedge® Tip is protected by U.S. Patent #5,239,273. WedgeDirect™ is protected by U.S. Patent #5,179,215. Patent #5,179,215 is protected by U.S. Patent #5,179,215.



## SPRINGER™ Systemic Antibiotic

An ArborSystems™ Duo-Inject™ Chemical  
• Easy • No Drilling • Saves Time and Money

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

ACTIVE INGREDIENT:	
Chlorpyrifos methylphosphorothioate	4.2%
INERTS:	
Water	95.8%
Total	

Keep Out of Reach of Children

**CAUTION**

See Inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

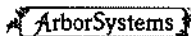
## SPRINGER™ Systemic Antibiotic

An ArborSystems™ Direct-Inject™ Chemical  
• Easy • No Drilling • Saves Time and Money

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the  
ArborSystems Wedge® Direct-Inject™  
Tree Injection System.



The No-Drill Injection Solution  
800-688-4641 • Fax: 402-339-5011  
P.O. Box 34645 • Omaha, NE 68134

EPA Reg. No. 69117-ID EPA Est. 69117-NE-1

### FIRST AID

**If Swallowed:** Immediately call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If on Skin or Clothing:** Take off contaminated clothing. Immediately rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If in Eyes:** Fold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 8:30 am-4:30 pm Pacific Time (NPIC website: [www.npic.orst.edu](http://www.npic.orst.edu)).

**Note to Physician:** there is no specific antidote available. Treat patient symptomatically.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

### PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

### USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application, or any requirements specific to your State or tribe, consult the agency responsible for pesticide regulation.

**ARBORSYSTEMS™ WEDGE® DIRECT-INJECT™ TREE INJECTION SYSTEM**  
The ArborSystems™ Wedge® Direct-Inject™ Tree Injection System, along with ArborSystems patented Pottle® Tips and Palm Tips, is the ideal way to treat palms. This no-drill trunk injection method is easy to use. Palm and Pottle Tips have been designed to penetrate the thick outer husks of palms. Several tip options are available allowing you to choose the tip best suited to treat palms of various husk density.

Most palms can be treated in as little as five minutes or less, allowing applicators to make treatments quickly. There is no need to wait for absorption/translocation; chemical is injected into the active portion of the palm without drilling. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat palms repeatedly with no threat of long-term or permanent damage. This system minimizes wounding and promotes long-term plant health and vigor.

### RESTRICTIONS

This product is not to be used on palms that will produce food within the year following treatment. Do not use any part of treated palms as food or feed.

### PRODUCT INFORMATION

SPRINGER™ Systemic Antibiotic is a ready-to-use antibiotic for use on palms. SPRINGER™ Systemic Antibiotic provides suppression of lethal yellows disease (phytoplasma disease) in palms.

### SYMPTOMS

Symptoms vary significantly based on the palm species, but generally occur in sequence; fruit drop, flower/seed wilt, excessive yellowing of the canopy starting with the newest fronds and finally death of the palm bud leading to death of the entire plant. Sometimes a younger frond will yellow early in the process. This "flag leaf" is often an early visual symptom, but not present in every case.

### TREATMENT

Preventative treatments are more effective than therapeutic treatment in palms showing disease symptoms.

**As a therapeutic measure,** immediately begin applications to palms exhibiting symptoms and continue on a 3- to 4-month treatment schedule. Palms with over 25% discolored leaves are unlikely to respond to treatment.

**Preventive treatments** are recommended to protect palms in areas where lethal yellowing is known or likely to occur. Apply preventive treatments any time during the growing season once every 3 to 4 months.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. If also contains

Tree	Disease	Dosage per Injection Site
Palm	For suppression of Palm Lethal Yellows disease (phytoplasma disease)	6 ml per 6" of trunk circumference measured at chest height.

**Palms Susceptible to Lethal Yellowing**  
This chart is only intended as a general guide. Susceptibility may vary depending on your location and evolving conditions. Contact a trained arborist familiar with conditions in the area to determine treatment strategies.

High susceptibility	Coconut Palm, all cultivars, <i>Cocos nucifera</i> Christmas Palm, <i>Adonidia merrillii</i> Loulou/Korra Palm, <i>Pritchardia alpinis</i> Thurston Fan Palm, <i>Pritchardia thurstonii</i> Tonga/Fiji Fan Palm, <i>Pritchardia pacifica</i>
High/medium susceptibility	Canary Island Date Palm, <i>Phoenix canariensis</i> Clustering Fishtail Palm, <i>Caryota mitis</i> Medjool Date Palm, <i>Phoenix dactyloflora</i> Sylvestre/Wild Date Palm, <i>Phoenix sylvestris</i>
Medium susceptibility	Aricuniroba, <i>Syragus schizophylla</i> Palmyra Palm, <i>Borassus flabellifer</i> Princess Palm, <i>Dietosperma album</i> Scoutpal Date Palm, <i>Phoenix reclinata</i> Windmill Palm, <i>Trachycarpus fortunei</i>
Medium/low susceptibility	Chinese Fan Palm, <i>Tristonia chinensis</i> Latan Palm, <i>Latania lontaroides</i> Queen Palm, <i>Syragus rooseffiana</i> Spindle Palm, <i>Hyophorba verschaffeltii</i>
Low susceptibility	Washingtonia/Mexican Fan, <i>Washingtonia robusta</i> Triangular Palm, <i>Thysa decaryi</i>
Undetermined level of susceptibility	Belmore Sentry, Cabada, Cabbage/Sabal, Cliff Date, Footstool, Gebang/Buri, Giant Fishail, Kona, Mazari, Miniature Sugar, Palma De Luvia, Rootspine, Scashore
Species thought to be resistant to Lethal Yellows	Dizmarckia, Foxtail, Royal, Softaire

specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear: coveralls over long-sleeved shirts and long pants, chemical-resistant gloves made of any waterproof material, shoes and socks.

## SPRINGER™ Systemic Antibiotic

An ArborSystems™ Direct-Inject™ Chemical

## SPRINGER™ Systemic Antibiotic

For seasonal suppression of lethal yellows  
(phytoplasma disease) on palms.

### ACTIVE INGREDIENT:

Oxytetracycline hydrochloride..... 4.3%

OTHER INGREDIENTS..... 95.7%

Total 100.0%

**Keep Out of Reach of Children**

### CAUTION

See booklet for First Aid, additional Precautionary  
Statements and complete Directions for Use.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsis-  
tent with its labeling.

Do not apply this product in a way that will contact workers or other  
persons, either directly or through drift. Only protected handlers may  
be in the area during application. For any requirements specific to your  
State or Tribe, consult the agency responsible for pesticide regulation.

The ArborSystems direct-inject units are designed to be used only with  
ArborSystems' pre-packed chemicals. Tampering with packs or con-  
tents may cause non-warranted damage to your injection system.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in  
an upright position. Do not expose material to temperatures (>85°F)  
for prolonged periods. **Pesticide Disposal:** Wastes resulting from  
the use of this product may be disposed of on site or at an approved  
waste disposal facility. **Container Handling:** Non-refillable container;  
do not reuse or refill this container. Completely empty pack into appli-  
cation equipment, then offer for recycling, if available, or dispose of  
empty pack in a sanitary landfill or by incineration.

Net Contents: 1 qt 2 fl oz (900 ml)

EPA Reg. No. 69117-1D

EPA Est. 69117-NE-1



800-698-4641 • Fax: 402-339-5011

P.O. Box 34645 • Omaha, NE 68134

SP\_1MS\_13-1

**Use within 6 months of the  
container-stamped packaged date.**

# Material Sent for Data Extraction

Reg. # 69117-10

Description: Label amendment

☒ Material(s) Sent to Data Extraction Contractors:

☒ New Stamped Label Dated 9/24/13

☐ Notification Dated \_\_\_\_\_

☐ New CSF(s) Dated \_\_\_\_\_

☐ Other: \_\_\_\_\_

☐ Decision #: 478644

☐ Other Action/Comments: \_\_\_\_\_  
\_\_\_\_\_

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: S. Hill

Phone: 347-8961 Division: RD

Date: 9/25/13



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Kimerlee Young  
RegWest Company, LLC  
8023 West 20<sup>th</sup> Street, Suite A  
Greeley, CO 80634

SEP 24 2013

Subject: Terrier Systemic Antibiotic  
EPA Reg. No. 69117-10  
Your application dated: 4/26/13  
EPA Decision Number: 478644

Dear Ms. Young:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to remove non applicable WPS language is acceptable. A copy of the label stamped "Accepted" is enclosed for your records. This label supersedes all labels previously accepted for this product. Please submit one copy of the final printed label before the product is released for shipment. If you have any questions, please contact Shaunta Hill by phone at 703-347-8961 or via email at [hill.shaunta@epa.gov](mailto:hill.shaunta@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Shaja Brothers-Joyner".

Shaja Brothers-Joyner  
Product Manager 20  
Fungicide Branch  
Registration Division (7504P)

Enclosed: Stamped accepted label

(Subpart A Label: For Use on Trees Excluding Palms)

## **TERRIER™ Systemic Antibiotic**

(Affixed Booklet – Front Panel)

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

### **An ArborSystems™ Direct-Inject™ Chemical**

**Active Ingredient:**

Oxytetracycline hydrochloride ..... 4.3%

**Other Ingredients** ..... 95.7%

**Total** ..... 100.0%

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

### **CAUTION**

**See inside for First Aid, additional Precautionary Statements and complete Directions for Use.**

Use within 6 months of the container-stamped packaged date.

(Affixed Booklet – Inside pages)

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

### **An ArborSystems™ Direct-Inject™ Chemical**

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

### **ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**ACCEPTED**

**SEP 24 2013**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg No. 69117-10

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

#### First Aid

If Swallowed	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on Skin or Clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

(Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.)

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

#### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations

##### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

#### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

### Physical or Chemical Hazards

Do not use or store near heat or open flame.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

#### ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System is a no-drill trunk injection method that is easy to use. Most trees are treated in as little as 5 minutes or less, allowing applicators to treat trees quickly. There is no need to wait for absorption (translocation); chemical is injected into the cambial area (the active vascular system) of the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat trees year after year, with no threat of long-term or permanent damage to the tree. This system minimizes wounding and promotes long-term tree health and vigor.

#### Restrictions

This product is not to be used on trees or shrubs that will produce food within the year following treatment; during the year following treatment, do not use any part of treated trees or shrubs, including sap, as food or feed. Do not inject trees that are less than two inches in diameter. This product contains the antibiotic oxytetracycline. To reduce the development of drug-resistant bacteria and maintain the effectiveness of this and other antibacterial products, this product should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria. This material is not to be used for medical or veterinary purposes.





#### Product Information

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for non-crop bearing ornamental trees and large woody shrubs. TERRIER™ Systemic Antibiotic [This product] provides seasonal suppression of a variety of diseases including bacterial leaf scorch, fire blight, yellows diseases, phloem necrosis, mycoplasmas, xylem-limited bacteria (*Xylella fastidiosa*, BLS) and some bacterial blight diseases. Late summer or early fall applications provide disease suppression the following season. Some diseases may require repeated yearly application.

Preventative application is more effective than therapeutic treatment in trees showing disease symptoms. Apply as a preventative when other trees in the area are showing symptoms. In trees showing symptoms, begin treatment as soon as possible. Trees in advanced stages of disease development may not respond to treatment. Infected trees will absorb the chemical more slowly due to the vascular damage caused by the disease. If TERRIER™ Systemic Antibiotic [this product] is not absorbed within 24 hours, the tree is considered high risk and has a poor chance of survival.

#### Dosage

Inject 1 to 2 ml per every 4" of trunk circumference measured within 12" of the ground using the Wedgle Direct-Inject Tree Injection System. Use Portle® Tips for injecting Sycamores or thick-barked hardwoods such as elms. For other trees, use Wedgle® Tips. Make all injections around the base (or flare) of the tree.

Diseases Treated	Application Timing	
<b>Bacterial Leaf Scorch</b> in Elm, Oak, Sycamore, Oleander, Sweet Gum (Liquidambar) <sup>11</sup>	Apply in late summer or early fall for preventive suppression the following season. Applications made in spring (April or May) will suppress current year symptoms.	
<b>Fire Blight</b> in Mountain Ash	Applications are most successful when made in early spring (January through May depending upon location) prior to or during bloom period. Applications made after bloom period will still prevent secondary twig infections. Fall applications are NOT recommended for fire blight suppression.	
<b>Ash Yellows</b> in Ash	Applications for treatment of ash yellows are most successful in the spring and early summer when leafout has reached at least 50% or more as adequate foliage is needed to assure translocation.	
<b>Phloem Necrosis</b> in Elm, also called Elm Yellow. <sup>12</sup>	If phloem necrosis has been identified in nearby trees it is preferable to treat unaffected trees in late summer or early fall for preventive suppression the following season. Applications made in spring MAY suppress current year symptoms, however results on trees with symptoms is inconsistent.	

#### [Disease Notes

- Bacterial Leaf Scorch (BLS)** is a bacterial plant disease caused by a vascular clogging bacterium (*Xylella fastidiosa*) that rapidly multiplies within active plant xylem. Distinct scorch-like leaf symptoms are followed by twig and branch death leading to plant decline and death. BLS bacterium is spread from diseased to healthy plant material during feeding by common urban xylem-feeding insects such as leafhoppers and treehoppers.
- Elms with phloem necrosis** exhibit leaves which turn yellow (out of season) and may drop prematurely. On trees that survive over winter, leaves in the spring are small and sparse. Symptoms are quite similar to Dutch Elm Disease, however it is important to distinguish between the two diseases as treatments are different. In Elms with phloem necrosis the entire crown is likely to show symptoms at the same time with symptoms appearing from July to late September. With Dutch Elm Disease, usually one or several small branches in the upper crown show earlier symptoms, which may appear anytime during the growing season.]

#### How to Apply ArborSystems Direct-Inject Chemicals with ArborSystems Wedgle® Direct-Inject Tree Injection System

- Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.
- Measure the circumference of the tree within 12" of the ground. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
- Choose which style and length of ArborSystems Injection Tip is most appropriate for type of tree you are treating.
- The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. If you need to inject a .5 ml dose of chemical, move the dose adjustment ring to the .5 ml dose adjustment groove.
- Make injections working around base (or flare) of the tree. All injections should be made within 12" of the ground unless otherwise noted.

6. With a smooth motion, firmly squeeze the injection unit handles to deliver chemical into tree. Apply equal pressure on both handles—unequal pressure may bend or break the tip.
7. Continue making injections moving around the tree until the entire tree trunk has been treated.
8. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips or the injection unit.
9. Tips should be cleaned after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedgle Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*(Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.)*

#### **Notice of Warranty**

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

[Sold by:]

**ArborSystems™**

*The No-Drift Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Wedgle® and Portle® are registered trademarks of ArborSystems  
ArborSystems™, Terrier™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems  
Direct-Inject™ unit is protected by U.S. Patent #5,901,498  
Wedgle® Tip is protected by U.S. Patent #5,239,773  
WedgeChek™ is protected by U.S. Patent #5,797,215  
Portle® Tip is protected by U.S. Patent #7,178,286

*(Box Label)*

#### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

**An ArborSystems™ Direct-Inject™ Chemical**

•Easy •No drilling •Saves time and money

<b>Active Ingredient:</b>	
Oxytetracycline hydrochloride .....	4.3%
<b>Other Ingredients</b> .....	<u>95.7%</u>
<b>Total</b> .....	100.0%

**Keep Out of Reach of Children**

**CAUTION**

**See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.**

Use within 6 months of the container-stamped packaged date.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

**Net Contents: 4 fl. oz. (120 ml)**  
**[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]**

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

{Pack Label}

**TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
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**An ArborSystems™ Direct-Inject™ Chemical**  
• Easy • No drilling • Saves time and money

**Active Ingredient:**

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<b>Other Ingredients</b> .....	<b>95.7%</b>
<b>Total</b> .....	<b>100.0%</b>

**Keep Out of Reach of Children**

**CAUTION**

**See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.**

**Use within 6 months of the container-stamped packaged date.**

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*(Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.)*

**Net Contents: 4 fl. oz. (120 ml)**

**[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]**

**EPA Reg. No. 69117-10**

**EPA Est. 69117-NE-1**

**[Sold by:]**

**ArborSystems™**

**The No-Drill Injection Solution**

**[800-698-4641] • [Fax: 402-339-5011]**

**P.O. Box 34645 • Omaha, NE 68134**

[ ] Denotes alternate/optional language

( ) Denotes language that does not appear on market labeling

*{Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.}*

**ArborSystems™ Wedgle® Direct-Inject™ System**

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased and control of most problems can be seen in as little as three to five days. Also, because no chemical is lost in non-active wood, the Direct-Inject System allows you to use less chemical to achieve high levels of effectiveness; this saves

money and reduces chemical waste. The Direct-Inject System injects chemicals into a tree with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter the tree, potential decay never starts and long-term wounding is prevented. The tree's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the tree. When air is allowed into a tree's vascular system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the tree.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree can best use it. No chemical is lost in dead wood.

ArborSystems Direct-Inject chemicals are integral parts of the Wedgle Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject units. Using unauthorized chemicals with the ArborSystems Wedgle Direct-Inject System constitutes a violation of Federal law.

#### **Chemical Selection**

Your distributor can advise you on the best chemical selections for trees in your area.

[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

{Subpart B Label: For Use on Palms}

## **TERRIER™ Systemic Antibiotic**

{ABN: SPRINGER™ Systemic Antibiotic}

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

**Active Ingredient:**

Oxytetracycline hydrochloride ..... 4.3%

**Other Ingredients** ..... 95.7%

**Total** ..... 100.0%

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

### **CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

### **TERRIER™ Systemic Antibiotic**

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An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

### First Aid

<b>If Swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in Eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

*{Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}*

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

#### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations

##### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

#### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

### Physical or Chemical Hazards

Do not use or store near heat or open flame.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

#### ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System, along with ArborSystems patented Portle® Tips and Palm Tips, is the ideal way to treat palms. This no-drill trunk injection method is easy to use. Palm and Portle Tips have been designed to penetrate the thick outer husks of palms. Several tip options are available allowing you to choose the tip best suited to treat palms of various husk density.

Most palms can be treated in as little as five minutes or less, allowing applicators to make treatments quickly. There is no need to wait for absorption (translocation); chemical is injected into the active portion of the palm without drilling. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat palms repeatedly with no threat of long-term or permanent damage. This system minimizes wounding and promotes long-term plant health and vigor.

#### Restrictions

This product is not to be used on palms that will produce food within the year following treatment. Do not use any part of treated palms as food or feed. This product contains the antibiotic oxytetracycline. To reduce the development of drug-resistant bacteria and maintain the effectiveness of this and other antibacterial products, this product should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria. This material is not to be used for medical or veterinary purposes.

#### Product Information

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for use on palms. TERRIER™ Systemic Antibiotic [This product] provides suppression of lethal yellows disease (*phytoplasma* disease) in palms.

#### Symptoms

Symptoms vary significantly based on the palm species, but generally occur in sequence; fruit drop, flower/seed wilt, excessive yellowing of the canopy starting with the newest fronds and finally death of the palm bud leading to death of the entire plant. Sometimes a younger frond will yellow early in the process. This "flag leaf" is often an early visual symptom, but not present in every case.

#### Treatment

Preventative treatments are more effective than therapeutic treatment in palms showing disease symptoms.

**As a therapeutic measure**, immediately begin applications to palms exhibiting symptoms and continue on a 3- to 4-month treatment schedule. Palms with over 25% discolored leaves are unlikely to respond to treatment.

**Preventive treatments** are recommended to protect palms in areas where lethal yellowing is known or likely to occur. Apply preventive treatments any time during the growing season once every 3 to 4 months.

Tree	Disease	Dosage per Injection Site
Palm	For suppression of Palm Lethal Yellows disease ( <i>Phytoplasma</i> disease)	6 ml per 6" of trunk circumference measured at chest height.

(Optional paragraph format)

**Palm:** For suppression of palm lethal yellows: Apply 6 ml of TERRIER™ Systemic Antibiotic [this product] per 6" of trunk circumference measured at chest height.

<b>[Palms Susceptible to Lethal Yellowing]</b>	
This chart is only intended as a general guide. Susceptibility may vary depending on your location and evolving conditions. Contact a trained arborist familiar with conditions in the area to determine treatment strategies.	
High susceptibility	Coconut Palm, all cultivars, <i>Cocos nucifera</i> Christmas Palm, <i>Adonidia merrilli</i> Louala/Konna Palm, <i>Pritchardia affinis</i> Thurston Fan Palm, <i>Pritchardia thurstonii</i> Tonga/Fiji Fan Palm, <i>Pritchardia pacifica</i>
High/medium susceptibility	Canary Island Date Palm, <i>Phoenix canariensis</i> Clustering Fishtail Palm, <i>Caryota mitis</i> Medjool Date Palm, <i>Phoenix dactylifera</i> Sylvester/Wild Date Palm, <i>Phoenix sylvestris</i>
Medium susceptibility	Aricuriroba, <i>Syragus schizophylla</i> Palmyra Palm, <i>Borassus flabellifer</i> Princess Palm, <i>Dictosperma album</i> Senegal Date Palm, <i>Phoenix reclinata</i> Windmill Palm, <i>Trachycarpus fortunei</i>
Medium/low susceptibility	Chinese Fan Palm, <i>Livistonia chinensis</i> Latan Palm, <i>Latania lontaroides</i> Queen Palm, <i>Syragus romanzoffiana</i> Spindle Palm, <i>Hyophorbe verschaffeltii</i>
Low susceptibility	Washingtonia/Mexican Fan, <i>Washingtonia robusta</i> Triangle Palm, <i>Dypsis decaryi</i>
Undetermined level of susceptibility	Belmore Sentry, Cabada, Cabbage/Sabal, Cliff Date, Footstool, Gebang/Buri, Giant Fishtail, Kentia, Mazari, Miniature Sugar, Palma De Lluvia, Rootspine, Seashore
Species thought to be resistant to Lethal Yellows	Bizmarckai, Foxtail, Royal, Solitaire]

{Information in above chart may be used selectively.}

#### How to Inject Palms with ArborSystems Wedgle® Direct-Inject Tree Injection System

1. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.
2. Measure the circumference of the palm at chest height. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Palms are treated using ArborSystems Palm or Portle Injection Tips, depending on the husk density. Choose which injection tips will work best for the palm you are treating and attach the appropriate tip to the ArborSystems Tip Setter. Using multiple tips will speed the injection process.
4. At chest height, tap the injection tip into the palm using the Tip Setter, then disconnect the setter from the tip leaving the tip in the palm. Repeat until all tips are set in the palm. **Do not attempt to insert or remove tips with the injection unit as that is likely to damage the injection unit.**
5. Connect the Wedgle Direct-Inject unit to one of the tips already inserted in the palm.

6. With a smooth motion, firmly squeeze the injection unit handles. Apply equal pressure on both handles—unequal pressure may bend or break the tip. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. Repeat until the required amount of chemical has been injected at the injection site.
7. Remove the injection unit from the tip leaving the tip in the palm.
8. Move to the next tip and attach the injection unit to the tip. Continue making injections at all injection sites. After all injections have been completed, use the Tip Setter to remove the tips from the palm. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips.
9. Clean tips after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedge Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

#### **Notice of Warranty**

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

[Sold by:]

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**The No-Drill Injection Solution**

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P.O. Box 34645 • Omaha, NE 68134

Wedge® Tip is a registered trademark of ArborSystems™

ArborSystems™, Terrier™, Springer™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems

Direct-Inject™ unit is protected by U.S. Patent #5,901,498

Wedge® Tip is protected by U.S. Patent #5,239,773

WedgeChek™ is protected by U.S. Patent #5,797,215

Portle® Tip is protected by U.S. Patent #7,178,286

*{Box Label}*

#### **TERRIER™ Systemic Antibiotic**

For **seasonal suppression of lethal yellows (phytoplasma disease) on palms.**

**An ArborSystems™ Direct-Inject™ Chemical**

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Oxytetracycline hydrochloride .....	4.3%
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<b>Total</b> .....	<b>100.0%</b>

**Keep Out of Reach of Children**

**CAUTION**

**See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.**

**Use within 6 months of the container-stamped packaged date.**

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

The ArborSystems Direct-Inject units are designed to be used only with ArborSystems' pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

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**EPA Reg. No. 69117-10**

**EPA Est. 69117-NE-1**

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{ [ Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

*{Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.}*

**ArborSystems™ Wedgle® Direct-Inject™ System**

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the active area of the palm. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. The Direct-Inject System injects chemicals into a palm with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter, potential decay never starts and long-term wounding is prevented. The palm's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the palm. When air is allowed into a palm's active system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the palm.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree or palm can best use it.

ArborSystems Direct-Inject chemicals are integral parts of the Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject unit. Using unauthorized chemicals with the ArborSystems Direct-Inject System constitutes a violation of Federal law.

{ } Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

ST 93787

{Subpart A Label: For Use on Trees Excluding Palms}

## **TERRIER™ Systemic Antibiotic**

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

#### **An ArborSystems™ Direct-Inject™ Chemical**

**Active Ingredient:**

Oxytetracycline hydrochloride ..... 4.3%

**Other Ingredients** ..... 95.7%

**Total** ..... 100.0%

**Net Contents: 4 fl. oz. (120 ml)**

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### **CAUTION**

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**Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.**

**To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System**

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### First Aid

If Swallowed	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on Skin or Clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

(Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.)

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Physical or Chemical Hazards**  
Do not use or store near heat or open flame.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

#### **ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System**

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System is a no-drill trunk injection method that is easy to use. Most trees are treated in as little as 5 minutes or less, allowing applicators to treat trees quickly. There is no need to wait for absorption (translocation); chemical is injected into the cambial area (the active vascular system) of the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat trees year after year, with no threat of long-term or permanent damage to the tree. This system minimizes wounding and promotes long-term tree health and vigor.

#### **Restrictions**

This product is not to be used on trees or shrubs that will produce food within the year following treatment; during the year following treatment, do not use any part of treated trees or shrubs, including sap, as food or feed. Do not inject trees that are less than two inches in diameter. This product contains the antibiotic oxytetracycline. To reduce the development of drug-resistant bacteria and maintain the effectiveness of this and other antibacterial products, this product should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria. This material is not to be used for medical or veterinary purposes.





#### **Product Information**

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for non-crop bearing ornamental trees and large woody shrubs. TERRIER™ Systemic Antibiotic [This product] provides seasonal suppression of a variety of diseases including bacterial leaf scorch, fire blight, yellows diseases, phloem necrosis, mycoplasmas, xylem-limited bacteria (*Xylella fastidiosa*, BLS) and some bacterial blight diseases. Late summer or early fall applications provide disease suppression the following season. Some diseases may require repeated yearly application.

Preventative application is more effective than therapeutic treatment in trees showing disease symptoms. Apply as a preventative when other trees in the area are showing symptoms. In trees showing symptoms, begin treatment as soon as possible. Trees in advanced stages of disease development may not respond to treatment. Infected trees will absorb the chemical more slowly due to the vascular damage caused by the disease. If TERRIER™ Systemic Antibiotic [this product] is not absorbed within 24 hours, the tree is considered high risk and has a poor chance of survival.

#### **Dosage**

**Inject 1 to 2 ml per every 4" of trunk circumference** measured within 12" of the ground using the Wedgle Direct-Inject Tree Injection System. Use Portle® Tips for injecting Sycamores or thick-barked hardwoods such as elms. For other trees, use Wedgle® Tips. Make all injections around the base (or flare) of the tree.

Diseases Treated	Application Timing	
<b>Bacterial Leaf Scorch</b> in Elm, Oak, Sycamore, Oleander, Sweet Gum (Liquidambar) <sup>11</sup>	Apply in late summer or early fall for preventive suppression the following season. Applications made in spring (April or May) will suppress current year symptoms.	
<b>Fire Blight</b> in Mountain Ash	Applications are most successful when made in early spring (January through May depending upon location) prior to or during bloom period. Applications made after bloom period will still prevent secondary twig infections. Fall applications are NOT recommended for fire blight suppression.	
<b>Ash Yellows</b> in Ash	Applications for treatment of ash yellows are most successful in the spring and early summer when leafout has reached at least 50% or more as adequate foliage is needed to assure translocation.	
<b>Phloem Necrosis</b> in Elm, also called Elm Yellow. <sup>12</sup>	If phloem necrosis has been identified in nearby trees it is preferable to treat unaffected trees in late summer or early fall for preventive suppression the following season. Applications made in spring MAY suppress current year symptoms, however results on trees with symptoms is inconsistent.	

#### [Disease Notes

- Bacterial Leaf Scorch (BLS)** is a bacterial plant disease caused by a vascular clogging bacterium (*Xylella fastidiosa*) that rapidly multiplies within active plant xylem. Distinct scorch-like leaf symptoms are followed by twig and branch death leading to plant decline and death. BLS bacterium is spread from diseased to healthy plant material during feeding by common urban xylem-feeding insects such as leafhoppers and treehoppers.
- Elms with phloem necrosis** exhibit leaves which turn yellow (out of season) and may drop prematurely. On trees that survive over winter, leaves in the spring are small and sparse. Symptoms are quite similar to Dutch Elm Disease, however it is important to distinguish between the two diseases as treatments are different. In Elms with phloem necrosis the entire crown is likely to show symptoms at the same time with symptoms appearing from July to late September. With Dutch Elm Disease, usually one or several small branches in the upper crown show earlier symptoms, which may appear anytime during the growing season.]

#### How to Apply ArborSystems Direct-Inject Chemicals with ArborSystems Wedgle® Direct-Inject Tree Injection System

- Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.
- Measure the circumference of the tree within 12" of the ground. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
- Choose which style and length of ArborSystems Injection Tip is most appropriate for type of tree you are treating.
- The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. If you need to inject a .5 ml dose of chemical, move the dose adjustment ring to the .5 ml dose adjustment groove.
- Make injections working around base (or flare) of the tree. All injections should be made within 12" of the ground unless otherwise noted.

6. With a smooth motion, firmly squeeze the injection unit handles to deliver chemical into tree. Apply equal pressure on both handles—unequal pressure may bend or break the tip.
7. Continue making injections moving around the tree until the entire tree trunk has been treated.
8. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips or the injection unit.
9. Tips should be cleaned after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedge Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*(Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.)*

#### **Notice of Warranty**

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

**[Sold by:]**

**ArborSystems™**

***The No-Drill Injection Solution***

**[800-698-4641] • [Fax: 402-339-5011]**

**P.O. Box 34645 • Omaha, NE 68134**

Wedge® and Portle® are registered trademarks of ArborSystems  
ArborSystems™, Terrier™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems  
Direct-Inject™ unit is protected by U.S. Patent #5,901,498  
Wedge® Tip is protected by U.S. Patent #5,239,773  
WedgeChek™ is protected by U.S. Patent #5,797,215  
Portle® Tip is protected by U.S. Patent #7,178,286

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*(Box Label)*

#### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

**An ArborSystems™ Direct-Inject™ Chemical**

**•Easy •No drilling •Saves time and money**

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
<b>Other Ingredients</b> .....	<b>95.7%</b>
<b>Total</b> .....	<b>100.0%</b>

**Keep Out of Reach of Children**

**CAUTION**

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

The ArborSystems Wedge Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

**Storage and Disposal**

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**Net Contents: 4 fl. oz. (120 ml)**

**[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]**

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

[Sold by:]

**ArborSystems™**

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{Pack Label}

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*{Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.}*

**ArborSystems™ Wedgle® Direct-Inject™ System**

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased and control of most problems can be seen in as little as three to five days. Also, because no chemical is lost in non-active wood, the Direct-Inject System allows you to use less chemical to achieve high levels of effectiveness; this saves

money and reduces chemical waste. The Direct-Inject System injects chemicals into a tree with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter the tree, potential decay never starts and long-term wounding is prevented. The tree's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the tree. When air is allowed into a tree's vascular system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the tree.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree can best use it. No chemical is lost in dead wood.

ArborSystems Direct-Inject chemicals are integral parts of the Wedgle Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject units. Using unauthorized chemicals with the ArborSystems Wedgle Direct-Inject System constitutes a violation of Federal law.

#### **Chemical Selection**

Your distributor can advise you on the best chemical selections for trees in your area.

[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

{Subpart B Label: For Use on Palms}

## **TERRIER™ Systemic Antibiotic**

{ABN: SPRINGER™ Systemic Antibiotic}

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

**Active Ingredient:**

Oxytetracycline hydrochloride ..... 4.3%

**Other Ingredients** ..... 95.7%

**Total** ..... 100.0%

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

### **CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

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### First Aid

<b>If Swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in Eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

*(Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.)*

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

### Physical or Chemical Hazards

Do not use or store near heat or open flame.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

#### ArborSystems™ Wedgie® Direct-Inject™ Tree Injection System

The ArborSystems™ Wedgie® Direct-Inject™ Tree Injection System, along with ArborSystems patented Portle® Tips and Palm Tips, is the ideal way to treat palms. This no-drill trunk injection method is easy to use. Palm and Portle Tips have been designed to penetrate the thick outer husks of palms. Several tip options are available allowing you to choose the tip best suited to treat palms of various husk density.

Most palms can be treated in as little as five minutes or less, allowing applicators to make treatments quickly. There is no need to wait for absorption (translocation); chemical is injected into the active portion of the palm without drilling. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat palms repeatedly with no threat of long-term or permanent damage. This system minimizes wounding and promotes long-term plant health and vigor.

#### Restrictions

This product is not to be used on palms that will produce food within the year following treatment. Do not use any part of treated palms as food or feed. This product contains the antibiotic oxytetracycline. To reduce the development of drug-resistant bacteria and maintain the effectiveness of this and other antibacterial products, this product should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria. This material is not to be used for medical or veterinary purposes.

#### Product Information

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for use on palms. TERRIER™ Systemic Antibiotic [This product] provides suppression of lethal yellows disease (*phytoplasma* disease) in palms.

#### Symptoms

Symptoms vary significantly based on the palm species, but generally occur in sequence; fruit drop, flower/seed wilt, excessive yellowing of the canopy starting with the newest fronds and finally death of the palm bud leading to death of the entire plant. Sometimes a younger frond will yellow early in the process. This "flag leaf" is often an early visual symptom, but not present in every case.

#### Treatment

Preventative treatments are more effective than therapeutic treatment in palms showing disease symptoms.

**As a therapeutic measure**, immediately begin applications to palms exhibiting symptoms and continue on a 3- to 4-month treatment schedule. Palms with over 25% discolored leaves are unlikely to respond to treatment.

**Preventive treatments** are recommended to protect palms in areas where lethal yellowing is known or likely to occur. Apply preventive treatments any time during the growing season once every 3 to 4 months.

Tree	Disease	Dosage per Injection Site
Palm	For suppression of Palm Lethal Yellows disease ( <i>Phytoplasma</i> disease)	6 ml per 6" of trunk circumference measured at chest height.

{Optional paragraph format}

Palm: For suppression of palm lethal yellows: Apply 6 ml of TERRIER™ Systemic Antibiotic [this product] per 6" of trunk circumference measured at chest height.

[Palms Susceptible to Lethal Yellowing]	
This chart is only intended as a general guide. Susceptibility may vary depending on your location and evolving conditions. Contact a trained arborist familiar with conditions in the area to determine treatment strategies.	
High susceptibility	Coconut Palm, all cultivars, <i>Cocos nucifera</i> Christmas Palm, <i>Adonidia merrilli</i> Loula/Konna Palm, <i>Pritchardia affinis</i> Thurston Fan Palm, <i>Pritchardia thurstonii</i> Tonga/Figi Fan Palm, <i>Pritchardia pacifica</i>
High/medium susceptibility	Canary Island Date Palm, <i>Phoenix canariensis</i> Clustering Fishtail Palm, <i>Caryota mitis</i> Medjool Date Palm, <i>Phoenix dactylifera</i> Sylvester/Wild Date Palm, <i>Phoenix sylvestris</i>
Medium susceptibility	Aricuniroba, <i>Syragus schizophylla</i> Palmyra Palm, <i>Borassus flabellifer</i> Princess Palm, <i>Dictosperma album</i> Senegal Date Palm, <i>Phoenix reclinata</i> Windmill Palm, <i>Trachycarpus fortunei</i>
Medium/low susceptibility	Chinese Fan Palm, <i>Livistonia chinensis</i> Latan Palm, <i>Latania lontaroides</i> Queen Palm, <i>Syragus romanzoffiana</i> Spindle Palm, <i>Hyophorbe verschaffeltii</i>
Low susceptibility	Washingtonia/Mexican Fan, <i>Washingtonia robusta</i> Triangle Palm, <i>Dypsis decaryi</i>
Undetermined level of susceptibility	Belmore Sentry, Cabada, Cabbage/Sabal, Cliff Date, Footstool, Gebang/Buri, Giant Fishtail, Kentia, Mazari, Miniature Sugar, Palma De Lluvia, Rootspine, Seashore
Species thought to be resistant to Lethal Yellows	Bizmarckai, Foxtail, Royal, Solitaire]

{Information in above chart may be used selectively.}

#### How to Inject Palms with ArborSystems Wedgle® Direct-Inject Tree Injection System

1. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.
2. Measure the circumference of the palm at chest height. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Palms are treated using ArborSystems Palm or Portle Injection Tips, depending on the husk density. Choose which injection tips will work best for the palm you are treating and attach the appropriate tip to the ArborSystems Tip Setter. Using multiple tips will speed the injection process.
4. At chest height, tap the injection tip into the palm using the Tip Setter, then disconnect the setter from the tip leaving the tip in the palm. Repeat until all tips are set in the palm. **Do not attempt to insert or remove tips with the injection unit as that is likely to damage the injection unit.**
5. Connect the Wedgle Direct-Inject unit to one of the tips already inserted in the palm.

6. With a smooth motion, firmly squeeze the injection unit handles. Apply equal pressure on both handles—unequal pressure may bend or break the tip. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. Repeat until the required amount of chemical has been injected at the injection site.
7. Remove the injection unit from the tip leaving the tip in the palm.
8. Move to the next tip and attach the injection unit to the tip. Continue making injections at all injection sites. After all injections have been completed, use the Tip Setter to remove the tips from the palm. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips.
9. Clean tips after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedgle Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

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*{Box Label}*

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**For seasonal suppression of lethal yellows (phytoplasma disease) on palms.**

**An ArborSystems™ Direct-Inject™ Chemical**

**•Easy •No drilling •Saves time and money**

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<b>Other Ingredients</b> .....	<b>95.7%</b>
<b>Total</b> .....	<b>100.0%</b>

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**CAUTION**

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With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree or palm can best use it.

ArborSystems Direct-Inject chemicals are integral parts of the Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject unit. Using unauthorized chemicals with the ArborSystems Direct-Inject System constitutes a violation of Federal law.

[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

## Hill, Shaunta

---

**From:** Kimberlee Young [kim@regwest.com]  
**Sent:** Tuesday, June 25, 2013 10:44 AM  
**To:** Hill, Shaunta  
**Cc:** Benmhend, Driss; Joyner, Shaja; Chip Doolittle (chip@arborsystems.com)  
**Subject:** RE: Pending label amendment: 69117-10  
**Attachments:** 069117-00010.20130625.pdf

SH 937817

Hello Shaunta,

Attached is the revised label for ArborSystems' "TERRIER Systemic Antibiotic", EPA Reg. No. 69117-10. I reinstated the *User Safety Requirements* and *User Safety Recommendations* in addition to adding the Restrictions language provided in your email.

Thank you for sending the label naming information. I believe the attached label follows the guidance, but if not please let me know.

Regards,

Kimberlee Young (formerly: Kim Davis),  
Consultant/Agent  
RegWest Company, LLC  
8203 West 20<sup>th</sup> St., Suite A  
Greeley, CO 80634-4696  
970.353.0611 (office)  
970.381.5853 (cell)  
970.353.0613 (fax)

If you are not the intended recipient, please delete this email.

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**From:** Hill, Shaunta [mailto:Hill.Shaunta@epa.gov]  
**Sent:** Tuesday, June 18, 2013 10:29 AM  
**To:** Kimberlee Young  
**Cc:** Benmhend, Driss; Joyner, Shaja  
**Subject:** Pending label amendment: 69117-10

Hello Kimberlee,

The fast track amendment submitted on 4/26/2013 to remove WPS language is not acceptable. The following changes are required for the draft labeling.

1. User Safety Requirements and User Safety Recommendations must be added back to labeling. These sections are **not** just specific to WPS products.
2. In registering this product, some restriction language was inadvertently excluded from our review. Within the Restrictions sections, the following text must be added:

This product contains the antibiotic oxytetracycline. To reduce the development of drug-resistant bacteria and maintain the effectiveness of this and other antibacterial products, this product should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria. This material is not to be used for medical or veterinary purposes.

Once the changes outlined above have been incorporated into the labeling, you may send the revised label electronically by replying to this email.  
Please reference the attached pdf guide for naming the electronic file. Please note that the included date should reflect the revision date of the document and not the original submission date for the application.

If you have any questions, please let me know.  
Thank you

Regards,

\*\*\*\*\*

Shaunta Hill, Ph. D  
U.S. EPA :Office of Chemical Safety and Pollution Prevention  
Registration Division/Fungicide Branch  
1200 Pennsylvania Avenue, NW (7504P)  
Washington, DC 20460

Tel: 703.347.8961 | Fax: 703.305.6920  
E-mail: [hill.shaunta@epa.gov](mailto:hill.shaunta@epa.gov)  
URL Address: [www.epa.gov/pesticides](http://www.epa.gov/pesticides)

{Subpart A Label: For Use on Trees Excluding Palms}

## TERRIER™ Systemic Antibiotic

{Affixed Booklet – Front Panel}

### TERRIER™ Systemic Antibiotic

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

An ArborSystems™ Direct-Inject™ Chemical

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

Keep Out of Reach of Children

### CAUTION

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

### TERRIER™ Systemic Antibiotic

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

### First Aid

If Swallowed	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on Skin or Clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

(Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.)

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

#### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

keep

#### User Safety Recommendations

##### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

keep

#### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

Physical or Chemical Hazards  
Do not use or store near heat or open flame.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

~~Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.~~ *may delete*

#### Agricultural Use Requirements

~~Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.~~ *OK*

~~Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.~~

~~For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear coveralls over long-sleeved shirts and long pants, chemical resistant gloves made of any waterproof material, shoes and socks.~~

#### ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System is a no-drill trunk injection method that is easy to use. Most trees are treated in as little as 5 minutes or less, allowing applicators to treat trees quickly. There is no need to wait for absorption (translocation); chemical is injected into the cambial area (the active vascular system) of the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat trees year after year, with no threat of long-term or permanent damage to the tree. This system minimizes wounding and promotes long-term tree health and vigor.

#### Restrictions *include restriction info from TRED*

This product is not to be used on trees or shrubs that will produce food within the year following treatment; during the year following treatment, do not use any part of treated trees or shrubs, including sap, as food or feed. Do not inject trees that are less than two inches in diameter.





#### Product Information

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for non-crop bearing ornamental trees and large woody shrubs. TERRIER™ Systemic Antibiotic [This product] provides seasonal suppression of a variety of diseases including bacterial leaf scorch, fire blight, yellows diseases, phloem necrosis, mycoplasmas, xylem-limited bacteria (*Xylella fastidiosa*, BLS) and some bacterial blight diseases. Late summer or early fall applications provide disease suppression the following season. Some diseases may require repeated yearly application.

Preventative application is more effective than therapeutic treatment in trees showing disease symptoms. Apply as a preventative when other trees in the area are showing symptoms. In trees showing symptoms, begin treatment as soon as possible. Trees in advanced stages of disease development may not respond to treatment. Infected trees will absorb the chemical more slowly due to the vascular damage caused by the disease. If TERRIER™ Systemic Antibiotic [this product] is not absorbed within 24 hours, the tree is considered high risk and has a poor chance of survival.

**Dosage**

Inject 1 to 2 ml per every 4" of trunk circumference measured within 12" of the ground using the Wedgle Direct-Inject Tree Injection System. Use Portle® Tips for injecting Sycamores or thick-barked hardwoods such as elms. For other trees, use Wedgle® Tips. Make all injections around the base (or flare) of the tree.

Diseases treated	Application Timing	
<b>Bacterial Leaf Scorch</b> in Elm, Oak, Sycamore, Oleander, Sweet Gum (Liquidambar) <sup>[1]</sup>	Apply in late summer or early fall for preventive suppression the following season. Applications made in spring (April or May) will suppress current year symptoms.	
<b>Fire Blight</b> in Mountain Ash	Applications are most successful when made in early spring (January through May depending upon location) prior to or during bloom period. Applications made after bloom period will still prevent secondary twig infections. Fall applications are NOT recommended for fire blight suppression.	
<b>Ash Yellows</b> in Ash	Applications for treatment of ash yellows are most successful in the spring and early summer when leafout has reached at least 50% or more as adequate foliage is needed to assure translocation.	
<b>Phloem Necrosis</b> in Elm, also called Elm Yellow. <sup>[2]</sup>	If phloem necrosis has been identified in nearby trees it is preferable to treat unaffected trees in late summer or early fall for preventive suppression the following season. Applications made in spring MAY suppress current year symptoms, however results on trees with symptoms is inconsistent.	

#### [Disease Notes

- Bacterial Leaf Scorch (BLS)** is a bacterial plant disease caused by a vascular clogging bacterium (*Xylella fastidiosa*) that rapidly multiplies within active plant xylem. Distinct scorch-like leaf symptoms are followed by twig and branch death leading to plant decline and death. BLS bacterium is spread from diseased to healthy plant material during feeding by common urban xylem-feeding insects such as leafhoppers and treehoppers.
- Elms with phloem necrosis** exhibit leaves which turn yellow (out of season) and may drop prematurely. On trees that survive over winter, leaves in the spring are small and sparse. Symptoms are quite similar to Dutch Elm Disease, however it is important to distinguish between the two diseases as treatments are different. In Elms with phloem necrosis the entire crown is likely to show symptoms at the same time with symptoms appearing from July to late September. With Dutch Elm Disease, usually one or several small branches in the upper crown show earlier symptoms, which may appear anytime during the growing season.]

#### How to Apply ArborSystems Direct-Inject Chemicals with ArborSystems Wedgle® Direct-Inject Tree Injection System

- Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.

2. Measure the circumference of the tree within 12" of the ground. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Choose which style and length of ArborSystems Injection Tip is most appropriate for type of tree you are treating.
4. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. If you need to inject a .5 ml dose of chemical, move the dose adjustment ring to the .5 ml dose adjustment groove.
5. Make injections working around base (or flare) of the tree. All injections should be made within 12" of the ground unless otherwise noted.
6. With a smooth motion, firmly squeeze the injection unit handles to deliver chemical into tree. Apply equal pressure on both handles—unequal pressure may bend or break the tip.
7. Continue making injections moving around the tree until the entire tree trunk has been treated.
8. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips or the injection unit.
9. Tips should be cleaned after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedgle Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

#### **Notice of Warranty**

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

[Sold by:]

**ArborSystems™**

**The No-Drill Injection Solution**

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Wedgle® and Portle® are registered trademarks of ArborSystems  
ArborSystems™, Terrier™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems  
Direct-Inject™ unit is protected by U.S. Patent #5,901,498  
Wedgle® Tip is protected by U.S. Patent #5,239,773  
WedgeChek™ is protected by U.S. Patent #5,797,215  
Portle® Tip is protected by U.S. Patent #7,178,286

{Box Label}

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

#### **Active Ingredient:**

Oxytetracycline hydrochloride ..... 4.3%

Other Ingredients ..... 95.7%

Total ..... 100.0%

**Keep Out of Reach of Children**

### **CAUTION**

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

~~Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.~~ *may be deleted.*

The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

{Pack Label}

### TERRIER™ Systemic Antibiotic

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

#### An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

#### Active Ingredient:

Oxytetracycline hydrochloride ..... 4.3%

Other Ingredients ..... 95.7%

Total ..... 100.0%

**Keep Out of Reach of Children**

### CAUTION

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear coveralls over long sleeved shirts and long pants, chemical resistant gloves made of any waterproof material, shoes and socks.

The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

### Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

[ { Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

*{Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.}*

### ArborSystems™ Wedgle® Direct-Inject™ System

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased and control of most problems can be seen in as little as three to five days. Also, because no chemical is lost in non-active wood, the Direct-Inject System allows you to use less chemical to achieve high levels of effectiveness; this saves money and reduces chemical waste. The Direct-Inject System injects chemicals into a tree with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter the tree, potential decay never starts and long-term wounding is prevented. The tree's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the tree. When air is allowed into a tree's vascular system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the tree.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree can best use it. No chemical is lost in dead wood.

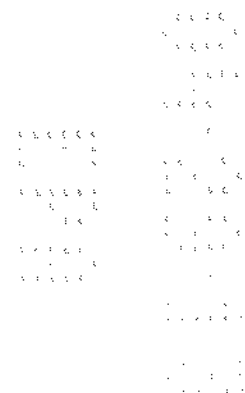
ArborSystems Direct-Inject chemicals are integral parts of the Wedgle Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject units. Using unauthorized chemicals with the ArborSystems Wedgle Direct-Inject System constitutes a violation of Federal law.

### Chemical Selection

Your distributor can advise you on the best chemical selections for trees in your area.

[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling



{Subpart B Label: For Use on Palms}

## **TERRIER™ Systemic Antibiotic**

{ABN: SPRINGER™ Systemic Antibiotic}

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

**Active Ingredient:**

Oxytetracycline hydrochloride ..... 4.3%

**Other Ingredients** ..... 95.7%

**Total** ..... 100.0%

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

### **CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

#### First Aid

<b>If Swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in Eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

(Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.)

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

#### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Keep

#### User Safety Recommendations

##### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

Keep

#### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Physical or Chemical Hazards**  
Do not use or store near heat or open flame.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **Agricultural Use Requirements**

~~Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.~~

~~Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.~~

~~For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear: coveralls over long-sleeved shirts and long pants, chemical-resistant gloves made of any waterproof material, shoes and socks.~~

#### **ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System**

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System, along with ArborSystems patented Portle® Tips and Palm Tips, is the ideal way to treat palms. This no-drill trunk injection method is easy to use. Palm and Portle Tips have been designed to penetrate the thick outer husks of palms. Several tip options are available allowing you to choose the tip best suited to treat palms of various husk density.

Most palms can be treated in as little as five minutes or less, allowing applicators to make treatments quickly. There is no need to wait for absorption (translocation); chemical is injected into the active portion of the palm without drilling. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat palms repeatedly with no threat of long-term or permanent damage. This system minimizes wounding and promotes long-term plant health and vigor.

#### **Restrictions** *add. info from TRED*

This product is not to be used on palms that will produce food within the year following treatment. Do not use any part of treated palms as food or feed.

#### **Product Information**

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for use on palms. TERRIER™ Systemic Antibiotic [This product] provides suppression of lethal yellows disease (*phytoplasma* disease) in palms.

#### **Symptoms**

Symptoms vary significantly based on the palm species, but generally occur in sequence; fruit drop, flower/seed wilt, excessive yellowing of the canopy starting with the newest fronds and finally death of the palm bud leading to death of the entire plant. Sometimes a younger frond will yellow early in the process. This "flag leaf" is often an early visual symptom, but not present in every case.

### Treatment

Preventative treatments are more effective than therapeutic treatment in palms showing disease symptoms.

As a therapeutic measure, immediately begin applications to palms exhibiting symptoms and continue on a 3- to 4-month treatment schedule. Palms with over 25% discolored leaves are unlikely to respond to treatment.

Preventive treatments are recommended to protect palms in areas where lethal yellowing is known or likely to occur. Apply preventive treatments any time during the growing season once every 3 to 4 months.

Tree	Disease	Dosage per Injection Site
Palm	For suppression of Palm Lethal Yellows disease ( <i>Phytoplasma</i> disease)	6 ml per 6" of trunk circumference measured at chest height.

(Optional paragraph format)

**Palm:** For suppression of palm lethal yellows: Apply 6 ml of TERRIER™ Systemic Antibiotic [this product] per 6" of trunk circumference measured at chest height.

[Palms Susceptible to Lethal Yellowing]	
This chart is only intended as a general guide. Susceptibility may vary depending on your location and evolving conditions. Contact a trained arborist familiar with conditions in the area to determine treatment strategies.	
High susceptibility	Coconut Palm, all cultivars, <i>Cocos nucifera</i> Christmas Palm, <i>Adonidia merrilli</i> Loula/Konna Palm, <i>Pritchardia affinis</i> Thurston Fan Palm, <i>Pritchardia thurstonii</i> Tonga/Fiji Fan Palm, <i>Pritchardia pacifica</i>
High/medium susceptibility	Canary Island Date Palm, <i>Phoenix canariensis</i> Clustering Fishtail Palm, <i>Caryota mitis</i> Medjool Date Palm, <i>Phoenix dactylifera</i> Sylvester/Wild Date Palm, <i>Phoenix sylvestris</i>
Medium susceptibility	Aricuriroba, <i>Syragus schizophylla</i> Palmyra Palm, <i>Borassus flabellifer</i> Princess Palm, <i>Dictosperma album</i> Senegal Date Palm, <i>Phoenix reclinata</i> Windmill Palm, <i>Trachycarpus fortunei</i>
Medium/low susceptibility	Chinese Fan Palm, <i>Livistonia chinensis</i> Latan Palm, <i>Latania lontaroides</i> Queen Palm, <i>Syragus romanzoffiana</i> Spindle Palm, <i>Hyophorbe verschaffeltii</i>
Low susceptibility	Washingtonia/Mexican Fan, <i>Washingtonia robusta</i> Triangle Palm, <i>Dypsis decaryi</i>
Undetermined level of susceptibility	Belmore Sentry, Cabada, Cabbage/Sabal, Cliff Date, Footstool, Gebang/Buri, Giant Fishtail, Kentia, Mazari, Miniature Sugar, Palma De Lluvia, Rootspine, Seashore
Species thought to be resistant to Lethal Yellows	Bizmarckai, Foxtail, Royal, Solitaire}

(information in above chart may be used selectively.)

### How to Inject Palms with ArborSystems Wedgie® Direct-Inject Tree Injection System

- t. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgie Direct-Inject System.
2. Measure the circumference of the palm at chest height. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Palms are treated using ArborSystems Palm or Portle Injection Tips, depending on the husk density. Choose which injection tips will work best for the palm you are treating and attach the appropriate tip to the ArborSystems Tip Setter. Using multiple tips will speed the injection process.
4. At chest height, tap the injection tip into the palm using the Tip Setter, then disconnect the setter from the tip leaving the tip in the palm. Repeat until all tips are set in the palm. **Do not attempt to insert or remove tips with the injection unit as that is likely to damage the injection unit.**
5. Connect the Wedgie Direct-Inject unit to one of the tips already inserted in the palm.
6. With a smooth motion, firmly squeeze the injection unit handles. Apply equal pressure on both handles—unequal pressure may bend or break the tip. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. Repeat until the required amount of chemical has been injected at the injection site.
7. Remove the injection unit from the tip leaving the tip in the palm.
8. Move to the next tip and attach the injection unit to the tip. Continue making injections at all injection sites. After all injections have been completed, use the Tip Setter to remove the tips from the palm. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips.
9. Clean tips after each use by submerging in alcohol or diluted bleach.
- t0. At the end of the day, water flush the Wedgie Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*(Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.)*

#### Notice of Warranty

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

[Sold by:]

**ArborSystems™**

**The No-Drill Injection Solution**

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Wedgie® Tip is a registered trademark of ArborSystems™

ArborSystems™, Terrier™, Springer™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems

Direct-Inject™ unit is protected by U.S. Patent #5,901,498  
Wedge® Tip is protected by U.S. Patent #5,239,773  
WedgeChek™ is protected by U.S. Patent #5,797,215  
Portle® Tip is protected by U.S. Patent #7,178,286

{Box Label}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical  
•Easy •No drilling •Saves time and money

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
<b>Other Ingredients</b> .....	<b>95.7%</b>
<b>Total</b> .....	<b>100.0%</b>

**Keep Out of Reach of Children**

### **CAUTION**

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. ~~For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.~~

The ArborSystems Direct-Inject units are designed to be used only with ArborSystems' pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

**Net Contents: 4 fl. oz. (120 ml)**  
**[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]**

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

[Sold by:]  
**ArborSystems™**  
*The No-Drill Injection Solution*  
[800-698-4641] • [Fax: 402-339-5011]  
P.O. Box 34645 • Omaha, NE 68134

{Pack Label}

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[800-698-4641] • [Fax: 402-339-5011]  
P.O. Box 34645 • Omaha, NE 68134

[ ] Denotes alternate/optional language  
{ } Denotes language that does not appear on market labeling

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*{Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.}*

### **ArborSystems™ Wedgie® Direct-Inject™ System**

The ArborSystems Wedgie® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the active area of the palm. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. The Direct-Inject System injects chemicals into a palm with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter, potential decay never starts and long-term wounding is prevented. The palm's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the palm. When air is allowed into a palm's active system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the palm.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgie® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree or palm can best use it.

ArborSystems Direct-Inject chemicals are integral parts of the Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgie Direct-Inject unit. Using unauthorized chemicals with the ArborSystems Direct-Inject System constitutes a violation of Federal law.

[ ] Denotes alternate/optional language  
{ } Denotes language that does not appear on market labeling

# FAST-TRACK AMENDMENTS – Completeness Screening Checklist

Expert's In-Processing Signature: DM Date: 5/24/13 PM #: 20

EPA Reg. Number: <u>69117 TO</u>		EPA Receipt Date: <u>4-25-13</u>		
	Checklist Item	Yes	No	N/A
1	Application Form (EPA Form 8570-1) - signed?	✓		
2	Confidential Statement of Formula (EPA Form 8570-29) - signed?			
3	Certification with Respect to Citation of Data (EPA Form 8570-34) - signed?			
4	Formulator's Exemption Statement (EPA Form 8570-27) - signed?			
5	Data Matrix (EPA Form 8570-35) [Applicable for adding me-too uses] - signed?			
	a) Selective Method?			
	b) Cite-All Method?			
	c) Public copy of Matrix provided? See PR Notice 98-5			
6	Is Label included? (5 copies)	✓		
	a) Electronic Label submitted?			
Comments:				

Receipt for Section 3			
S:	934580	Resubmission:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Regulatory Type:	Product Registration - Section 3	Fee For Service:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Application Type:	Amendment	Billable:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Company:	69117 ARBORSYSTEMS, INC.		V
Risk Manager:	Registration Division, Risk Management Team 20		
Product #:	69117-10	Product Name:	TERRIER SYSTEMIC ANTIBIOTIC
Override#:			
Me Too Section3:		Me Too Product Name:	
Application Date:	26-Apr-2013	OPP Rec'd Date:	29-Apr-2013
Front End Date:	29-Apr-2013	Risk Manager Send Date:	01-May-2013
FFS Due Date:		Negotiated Due Date:	
OPP Target Date:			
Fast Track:	<input type="checkbox"/>	New Ingredient:	<input type="checkbox"/>
Receipt Description:		View/Edit	
AMENDMENT		New Ingredient Request Date:	
		New Ingredient Received Date:	
Form A:	<input type="checkbox"/>	Signature Date:	
Form B:	<input type="checkbox"/>	Signature Date:	

Print Letter  
 Enter More Information  
 Tracking

Receipt Content  
 Paper Label  
 < >

\*Product ingredient source information may be entitled to confidential treatment\*

## Non-PRIA Label Revision Amendment

April 26, 2012



Mr. Driss Benmhend, Acting Product Manager 20  
Document Processing Desk - **AMEND**  
Office of Pesticide Programs - **7504C**  
U.S. Environmental Protection Agency  
One Potomac Yard (South Building), Room S-4900  
2777 South Crystal Drive  
Arlington, VA 22202

Dear Mr. Benmhend:

**Subject:** ArborSystems, Inc. d/b/a ArborSystems  
TERRIER™ Systemic Antibiotic, EPA Reg. No. 69117-10

On behalf of **ArborSystems, Inc. d/b/a ArborSystems**, RegWest Company, LLC is submitting the attached documents in support of a non-PRIA label amendment for subject product. RegWest will act as sole agent in this endeavor.

Attached are the following:

1. Application for Pesticide: Amendment
2. One **Reference Label** (illustrating the revisions)
3. Five **New Labels** (incorporating the revisions)

The purpose of this label revision amendment is to delete the Worker Protection Standard ("WPS") language from the label. Earlier this month I contacted Shaunta Hill via email for advice as to the best way to accomplish this (i.e., amendment vs. notification). Shaunta replied "The labeling for 69117-10 may not differ from the parent product which serves as your repack source."

Ordinarily I would agree with that statement; however, in this case we would be perpetuating an error that occurs on the parent product that could be construed as misbranding and should be corrected to comply with current regulations. Per 40 CFR § 170.103 –Exceptions:

"This subpart does not apply when any pesticide is applied on agricultural establishments in the following circumstances:  
(e) By injection directly into agricultural plants."


The Label Review Manual (Page 10-3) further clarifies the exemptions by stating: "If the product's directions for use allow for any uses that are not in the above exceptions, the product IS subject to the WPS. Keep reading. If the product's directions for use contain only uses that fall under one or more of the above exceptions, the product is NOT subject to the WPS. The WPS-specific requirements in this chapter do not apply."

Both the parent and ArborSystems' products are injected directly into plants and are therefore not subject to the WPS.

Even if the parent label had uses that were both subject to WPS and not subject to WPS, the registrant is allowed to market the product under two distinctly different product labels (reference the Label Review Manual Page 10-4). While this is not applicable to the parent product, as only plant injection use directions are on the label, it does illustrate that the Agency has made allowances for products with WPS-exempted use directions to be correctly labeled without WPS language.

We therefore request receipt of a new stamped accepted label that does not include WPS language. Please contact me at 970.353.0611 or kim@regwest.com if you have any questions or require additional information.

Regards,  
RegWest Company, LLC

  
Kimberlee Young  
(formerly: Kim Davis),  
Consultant/Agent

Attachments  
cc: ASI – Doolittle, C.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

May 1, 2013

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

KIMBERLEE YOUNG  
REGWEST COMPANY, LLC  
ARBORSYSTEMS, INC.  
D/B/A ARBOR SYSTEMS  
8203 WEST 20TH STREET, SUITE A  
GREELEY, CO 80634-4696

PRODUCT NAME: TERRIER SYSTEMIC ANTIBIOTIC  
COMPANY NAME: ARBORSYSTEMS, INC.  
OPP IDENTIFICATION NUMBER:  
EPA FILE SYMBOL: 69117-10  
EPA RECEIPT DATE: 04/29/13

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Registration Division, Risk Management Team 20, at (703) 305-7990.

Sincerely,

A handwritten signature in black ink, appearing to be "J. R. Smith" or similar, written over a horizontal line.

Front End Processing Staff  
Information Services Branch  
Information Technology & Resources Management Division

**Fee for Service**

{934580+~

This package includes the following

- ☐ New Registration
- ☒ Amendment

- ☐ Studies?      ☐ Fee Waiver?
- ☐ volpay    % Reduction: \_\_\_\_

for Division

- ☐ AD
- ☐ BPPD
- ☒ RD

Risk Mgr. 20

Receipt No.

S-

934580

EPA File Symbol/Reg. No.

69117-10

Pin-Punch Date:

4/29/2013

- ☐ This item is NOT subject to FFS action.

Action Code:

Requested:

Granted:

Amount Due: \$ \_\_\_\_

Parent/Child Decisions:

☒ Inert Cleared for Intended Use



Uncleared Inert in Product

Reviewer: \_\_\_\_\_

Date: 5/1/13


Remarks:

NOTE

PRODUCT MUST MAINTAIN PARENT LABELING  
144  
-ML

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060.

	United States <b>Environmental Protection Agency</b> 1200 Pennsylvania Avenue, N.W. Washington, DC 20460-0001	<input type="checkbox"/> Registration <input checked="" type="checkbox"/> Amendment <input type="checkbox"/> Other	OPP Identifier Number  <b>Non-PRIA</b>
----------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------	----------------------------------------------

### Application for Pesticide – Section I

1. Company/Product Number <p style="text-align: center;"><b>69117-10</b></p>	2. EPA Product Manager <p style="text-align: center;"><b>Driss Benmhend</b></p>	3. Proposed Classification  <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/ Product (Name) <p style="text-align: center;"><b>TERRIER™ Systemic Antibiotic</b></p>	PM # <p style="text-align: center;"><b>20</b></p>	
5. Name and Address of Applicant (Include ZIP Code) <b>ArborSystems, Inc. d/b/a ArborSystems</b> <b>c/o RegWest Company, LLC</b> <b>8203 West 20<sup>th</sup> Street, Suite A</b> <b>Greeley, CO 80634-4696</b>  <input type="checkbox"/> Check if this is a new address		6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3)(b)(i) my product is similar or identical in composition and labeling to:  <div style="background-color: black; width: 100%; height: 50px;"></div>

### Section – II

<input checked="" type="checkbox"/> Amendment – Explain below.  <input type="checkbox"/> Resubmission in response to Agency letter dated _____  <input type="checkbox"/> Notification – Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____  <input type="checkbox"/> "Me Too" Application.  <input type="checkbox"/> Other – Explain below.
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------


**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

**Non-PRIA Label Revision Amendment**  
**Primary Purpose: Delete WPS language**  
**Refer to the Reference Label for an illustration of the label revisions.**

### Section – III

t. Material This Product Will Be Packaged In:					
Child Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify):	
*Certification must be submitted		If "Yes" Unit Packaging Wt.      No. Per Container	If "Yes" Packaging Wt.      No. Per Container		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container <p style="text-align: center;"><b>4 fl. oz. (120 ml) and 1 qt. 2 fl. oz. (1000 ml)</b></p>		5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling Accompanying Product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Stenciled <input type="checkbox"/> Paper glued <input checked="" type="checkbox"/> Other <b>Self-adhesive; printed boxes</b>					

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application).			
Name <p style="text-align: center;"><b>Kimberlee Young</b> (formerly: Kim Davis)</p>	Title <p style="text-align: center;"><b>Consultant/Agent</b></p>	Telephone No. (Include Area Code) <p style="text-align: center;"><b>970.353.0613</b> <b>kim@regwest.com</b></p>	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			
2. Signature 	3. Title <p style="text-align: center;"><b>Consultant/Agent</b></p>		
4. Typed Name <p style="text-align: center;"><b>Kimberlee Young</b> (formerly: Kim Davis)</p>	5. Date <p style="text-align: center;"><b>04/26/2013</b></p>		
6. Data Application Received (Stamped)			

{Subpart A Label: For Use on Trees Excluding Palms}

## **TERRIER™ Systemic Antibiotic**

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

**An ArborSystems™ Direct-Inject™ Chemical**

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

**CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

### **TERRIER™ Systemic Antibiotic**

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fire blight, yellows diseases and phloem necrosis on ornamental trees.

**An ArborSystems™ Direct-Inject™ Chemical**

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

#### First Aid

<b>If Swallowed</b>	<ul style="list-style-type: none"><li>• Immediately call a poison control center or doctor for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If in Eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a> ).	
<b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.	

(Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.)

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

#### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

#### Physical or Chemical Hazards

Do not use or store near heat or open flame.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

#### ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System is a no-drill trunk injection method that is easy to use. Most trees are treated in as little as 5 minutes or less, allowing applicators to treat trees quickly. There is no need to wait for absorption (translocation); chemical is injected into the cambial area (the active vascular system) of

the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat trees year after year, with no threat of long-term or permanent damage to the tree. This system minimizes wounding and promotes long-term tree health and vigor.

#### Restrictions

This product is not to be used on trees or shrubs that will produce food within the year following treatment; during the year following treatment, do not use any part of treated trees or shrubs, including sap, as food or feed. Do not inject trees that are less than two inches in diameter.




#### Product Information


**TERRIER™ Systemic Antibiotic** [This product] is a ready-to-use antibiotic for non-crop bearing ornamental trees and large woody shrubs. **TERRIER™ Systemic Antibiotic** [This product] provides seasonal suppression of a variety of diseases including bacterial leaf scorch, fire blight, yellows diseases, phloem necrosis, mycoplasmas, xylem-limited bacteria (*Xylella fastidiosa*, BLS) and some bacterial blight diseases. Late summer or early fall applications provide disease suppression the following season. Some diseases may require repeated yearly application.

Preventative application is more effective than therapeutic treatment in trees showing disease symptoms. Apply as a preventative when other trees in the area are showing symptoms. In trees showing symptoms, begin treatment as soon as possible. Trees in advanced stages of disease development may not respond to treatment. Infected trees will absorb the chemical more slowly due to the vascular damage caused by the disease. If **TERRIER™ Systemic Antibiotic** [this product] is not absorbed within 24 hours, the tree is considered high risk and has a poor chance of survival.

#### Dosage

Inject 1 to 2 ml per every 4" of trunk circumference measured within 12" of the ground using the Wedgle Direct-Inject Tree Injection System. Use Portle® Tips for injecting Sycamores or thick-barked hardwoods such as elms. For other trees, use Wedgle® Tips. Make all injections around the base (or flare) of the tree.

Diseases treated	Application Timing	
<b>Bacterial Leaf Scorch</b> in Elm, Oak, Sycamore, Oleander, Sweet Gum (Liquidambar) <sup>(1)</sup>	Apply in late summer or early fall for preventive suppression the following season. Applications made in spring (April or May) will suppress current year symptoms.	
<b>Fire Blight</b> in Mountain Ash	Applications are most successful when made in early spring (January through May depending upon location) prior to or during bloom period. Applications made after bloom period will still prevent secondary twig infections. Fall applications are NOT recommended for fire blight suppression.	
<b>Ash Yellows</b> in Ash	Applications for treatment of ash yellows are most successful in the spring and early summer when leafout has reached at least 50% or more as adequate foliage is needed to assure translocation.	

<p><b>Phloem Necrosis</b> in Elm, also called Elm Yellow. <sup>[2]</sup></p>	<p>If phloem necrosis has been identified in nearby trees it is preferable to treat unaffected trees in late summer or early fall for preventive suppression the following season. Applications made in spring MAY suppress current year symptoms, however results on trees with symptoms is inconsistent.</p>	
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#### [Disease Notes

1. **Bacterial Leaf Scorch (BLS)** is a bacterial plant disease caused by a vascular clogging bacterium (*Xylella fastidiosa*) that rapidly multiplies within active plant xylem. Distinct scorch-like leaf symptoms are followed by twig and branch death leading to plant decline and death. BLS bacterium is spread from diseased to healthy plant material during feeding by common urban xylem-feeding insects such as leafhoppers and treehoppers.
2. Elms with phloem necrosis exhibit leaves which turn yellow (out of season) and may drop prematurely. On trees that survive over winter, leaves in the spring are small and sparse. Symptoms are quite similar to Dutch Elm Disease, however it is important to distinguish between the two diseases as treatments are different. In Elms with phloem necrosis the entire crown is likely to show symptoms at the same time with symptoms appearing from July to late September. With Dutch Elm Disease, usually one or several small branches in the upper crown show earlier symptoms, which may appear anytime during the growing season.]

#### How to Apply ArborSystems Direct-Inject Chemicals with ArborSystems Wedgle® Direct-Inject Tree Injection System

1. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.
2. Measure the circumference of the tree within 12" of the ground. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Choose which style and length of ArborSystems Injection Tip is most appropriate for type of tree you are treating.
4. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. If you need to inject a .5 ml dose of chemical, move the dose adjustment ring to the .5 ml dose adjustment groove.
5. Make injections working around base (or flare) of the tree. All injections should be made within 12" of the ground unless otherwise noted.
6. With a smooth motion, firmly squeeze the injection unit handles to deliver chemical into tree. Apply equal pressure on both handles—unequal pressure may bend or break the tip.
7. Continue making injections moving around the tree until the entire tree trunk has been treated.
8. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips or the injection unit.
9. Tips should be cleaned after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedgle Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

### Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

### Notice of Warranty

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Wedgle® and Portle® are registered trademarks of ArborSystems

ArborSystems™, Terrier™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems

Direct-Inject™ unit is protected by U.S. Patent #5,901,498

Wedgle® Tip is protected by U.S. Patent #5,239,773

WedgeChek™ is protected by U.S. Patent #5,797,215

Portle® Tip is protected by U.S. Patent #7,178,286

*{Box Label}*

### TERRIER™ Systemic Antibiotic

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

#### Active Ingredient:

Oxytetracycline hydrochloride ..... 4.3%

Other Ingredients ..... 95.7%

Total ..... 100.0%

**Keep Out of Reach of Children**

### CAUTION

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

### Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

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{Pack Label}

## TERRIER™ Systemic Antibiotic

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An ArborSystems™ Direct-Inject™ Chemical

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### Storage and Disposal

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[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

*{Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.}*

## ArborSystems™ Wedgle® Direct-Inject™ System

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased and control of most problems can be seen in as little as three to five days. Also, because no chemical is lost in non-active wood, the Direct-Inject System allows you to use less chemical to achieve high levels of effectiveness; this saves money and reduces chemical waste. The Direct-Inject System injects chemicals into a tree with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter the tree, potential decay never starts and long-term wounding is prevented. The tree's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out diseases, fungi, bacteria and insects.

- Prevents air from getting into the tree. When air is allowed into a tree's vascular system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the tree.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree can best use it. No chemical is lost in dead wood.

ArborSystems Direct-Inject chemicals are integral parts of the Wedgle Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject units. Using unauthorized chemicals with the ArborSystems Wedgle Direct-Inject System constitutes a violation of Federal law.

#### **Chemical Selection**

Your distributor can advise you on the best chemical selections for trees in your area.

[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

{Subpart B Label: For Use on Palms}

## **TERRIER™ Systemic Antibiotic**

{ABN: SPRINGER™ Systemic Antibiotic}

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

### **CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

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Net Contents: 4 fl. oz. (120 ml)

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EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

#### First Aid

If Swallowed	<ul style="list-style-type: none"><li>• Immediately call a poison control center or doctor for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
If on Skin or Clothing	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
If in Eyes	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a> ).	
<b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.	

*(Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.)*

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

#### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

#### Physical or Chemical Hazards

Do not use or store near heat or open flame.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

#### ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System, along with ArborSystems patented Portle® Tips and Palm Tips, is the ideal way to treat palms. This no-drill trunk injection method is easy to use. Palm and Portle Tips have been designed to penetrate the thick outer husks of palms. Several tip options are available allowing you to choose the tip best suited to treat palms of various husk density.

Most palms can be treated in as little as five minutes or less, allowing applicators to make treatments quickly. There is no need to wait for absorption (translocation); chemical is injected into the active portion of the palm without drilling. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat palms repeatedly with no threat of long-term or permanent damage. This system minimizes wounding and promotes long-term plant health and vigor.

#### Restrictions

This product is not to be used on palms that will produce food within the year following treatment. Do not use any part of treated palms as food or feed.

#### Product Information

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for use on palms. TERRIER™ Systemic Antibiotic [This product] provides suppression of lethal yellows disease (*phytoplasma* disease) in palms.

#### Symptoms

Symptoms vary significantly based on the palm species, but generally occur in sequence; fruit drop, flower/seed wilt, excessive yellowing of the canopy starting with the newest fronds and finally death of the palm bud leading to death of the entire plant. Sometimes a younger frond will yellow early in the process. This "flag leaf" is often an early visual symptom, but not present in every case.

#### Treatment

Preventative treatments are more effective than therapeutic treatment in palms showing disease symptoms.

As a therapeutic measure, immediately begin applications to palms exhibiting symptoms and continue on a 3- to 4-month treatment schedule. Palms with over 25% discolored leaves are unlikely to respond to treatment.

Preventive treatments are recommended to protect palms in areas where lethal yellowing is known or likely to occur. Apply preventive treatments any time during the growing season once every 3 to 4 months.

Tree	Disease	Dosage per Injection Site
Palm	For suppression of Palm Lethal Yellows disease ( <i>Phytoplasma</i> disease)	6 ml per 6" of trunk circumference measured at chest height.

(Optional paragraph format)

**Palm:** For suppression of palm lethal yellows: Apply 6 ml of TERRIER™ Systemic Antibiotic [this product] per 6" of trunk circumference measured at chest height.

[Palms Susceptible to Lethal Yellowing]	
This chart is only intended as a general guide. Susceptibility may vary depending on your location and evolving conditions. Contact a trained arborist familiar with conditions in the area to determine treatment strategies.	
High susceptibility	Coconut Palm, all cultivars, <i>Cocos nucifera</i> Christmas Palm, <i>Adonidia merrilli</i> Loula/Konna Palm, <i>Pritchardia affinis</i> Thurston Fan Palm, <i>Pritchardia thurstonii</i> Tonga/Figi Fan Palm, <i>Pritchardia pacifica</i>

High/medium susceptibility	Canary Island Date Palm, <i>Phoenix canariensis</i> Clustering Fishtail Palm, <i>Caryota mitis</i> Medjool Date Palm, <i>Phoenix dactylifera</i> Sylvester/Wild Date Palm, <i>Phoenix sylvestris</i>
Medium susceptibility	Aricuriroba, <i>Syragus schizophylla</i> Palmyra Palm, <i>Borassus flabellifer</i> Princess Palm, <i>Dictosperma album</i> Senegal Date Palm, <i>Phoenix reclinata</i> Windmill Palm, <i>Trachycarpus fortunei</i>
Medium/low susceptibility	Chinese Fan Palm, <i>Livistonia chinensis</i> Latan Palm, <i>Lafania lontaroides</i> Queen Palm, <i>Syragus romanzoffiana</i> Spindle Palm, <i>Hyophorbe verschaffeltii</i>
Low susceptibility	Washingtonia/Mexican Fan, <i>Washingtonia robusta</i> Triangle Palm, <i>Dypsis decaryi</i>
Undetermined level of susceptibility	Belmore Sentry, Cabada, Cabbage/Sabal, Cliff Date, Footstool, Gebang/Buri, Giant Fishtail, Kentia, Mazari, Miniature Sugar, Palma De Lluvia, Rootspine, Seashore
Species thought to be resistant to Lethal Yellows	Bizmarckai, Foxtail, Royal, Solitaire]

(Information in above chart may be used selectively.)

#### How to Inject Palms with ArborSystems Wedgle® Direct-Inject Tree Injection System

1. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.
2. Measure the circumference of the palm at chest height. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Palms are treated using ArborSystems Palm or Portle Injection Tips, depending on the husk density. Choose which injection tips will work best for the palm you are treating and attach the appropriate tip to the ArborSystems Tip Setter. Using multiple tips will speed the injection process.
4. At chest height, tap the injection tip into the palm using the Tip Setter, then disconnect the setter from the tip leaving the tip in the palm. Repeat until all tips are set in the palm. Do not attempt to insert or remove tips with the injection unit as that is likely to damage the injection unit.
5. Connect the Wedgle Direct-Inject unit to one of the tips already inserted in the palm.
6. With a smooth motion, firmly squeeze the injection unit handles. Apply equal pressure on both handles—unequal pressure may bend or break the tip. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. Repeat until the required amount of chemical has been injected at the injection site.
7. Remove the injection unit from the tip leaving the tip in the palm.
8. Move to the next tip and attach the injection unit to the tip. Continue making injections at all injection sites. After all injections have been completed, use the Tip Setter to remove the tips from the palm. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips.
9. Clean tips after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedgle Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

### Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

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[Sold by:]

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Wedge® Tip is a registered trademark of ArborSystems™

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Direct-Inject™ unit is protected by U.S. Patent #5,901,498

Wedge® Tip is protected by U.S. Patent #5,239,773

WedgeChek™ is protected by U.S. Patent #5,797,215

Portle® Tip is protected by U.S. Patent #7,178,286

*(Box Label)*

### TERRIER™ Systemic Antibiotic

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

#### Active Ingredient:

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

**Keep Out of Reach of Children**

### CAUTION

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

The ArborSystems Direct-Inject units are designed to be used only with ArborSystems' pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

#### Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-10

EPA Est. 69117-NE-1

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

{Pack Label}

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[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

*{Additional Setting/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.}*

#### **ArborSystems™ Wedgle® Direct-Inject™ System**

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the active area of the palm. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. The Direct-Inject System injects chemicals into a palm with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter, potential decay never starts and long-term wounding is prevented. The palm's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the palm. When air is allowed into a palm's active system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the palm.

- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree or palm can best use it.

ArborSystems Direct-Inject chemicals are integral parts of the Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject unit. Using unauthorized chemicals with the ArborSystems Direct-Inject System constitutes a violation of Federal law.

[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

# Material Sent for Data Extraction

Reg. # 69117-10

Description: New Product Registration

☒ Material(s) Sent to Data Extraction Contractors:

☒ New Stamped Label Dated 3/7/13

☐ Notification Dated \_\_\_\_\_

☒ New CSF(s) Dated 11/2/12

☐ Other: \_\_\_\_\_

☐ Decision #: \_\_\_\_\_

☐ Other Action/Comments: \_\_\_\_\_

\_\_\_\_\_

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: S. Hill

Phone: 347-8961 Division: ED

Date: 3/11/13

## NEW APPLICATIONS

DATE: NOV - 5 2012

FILE NUMBER: 60117 - RN

FEP (OPPIN ENTRY) LV NOV - 5 2012  
(Initial & date)

FILE ROOM: \_\_\_\_\_  
(Initial & date)

SIG: \_\_\_\_\_  
(Initial & date)

FILE ROOM: \_\_\_\_\_  
(Initial & date)

✓ ASSIGN TO PM 20 (NO DATA)

       JACKET TO SHELF (DATA)



# U.S. ENVIRONMENTAL PROTECTION

Office of Chemical Safety and Pollution Prevention  
Office of Pesticide Programs  
Registration Division (7504P)  
1200 Pennsylvania Ave., N.W.  
Washington, DC 20460

EPA Reg.  
Number:

69117-10

Date of Issuance:

MAR 07 2013

Term of Issuance:

Unconditional

Name of Pesticide Product:

Terrier Systemic Antibiotic

## NOTICE OF PESTICIDE:

☒ Registration

☐ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

ArborSystems, Inc.  
d/b/a ArborSystems  
P.O. Box 34645  
Omaha, NE 68134

Mailed to Agent:

Kimerlee Young  
RegWest Company, LLC  
8023 West 20<sup>th</sup> Street, Suite A  
Greeley, CO 80634

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

Page 1 of 2

Signature of Approving Official:

*See next page*

Driss Benmhend, Acting Product Manager 20

Date:

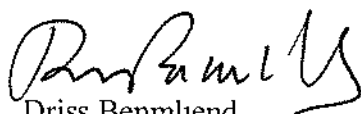
MAR 07 2013

2. Change the product registration number to 69117-10.
3. Submit one copy of the revised final printed label for the record before the product is released for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Your basic CSF dated 11/2/12, is acceptable and will be added to the regulatory file. A copy of the label stamped "Accepted with Comments" is enclosed for your records. If you have any questions, please contact Shaunta Hill at 703-347-8961 or [hill.shaunta@epa.gov](mailto:hill.shaunta@epa.gov).

Sincerely,



Driss Benmliend  
Acting Product Manager 20  
Fungicide Branch  
Registration Division (7504P)

Enclosure:  
Label stamped "Accepted with Comments"

(Subpart A Label: For Use on Trees Excluding Palms)

## **TERRIER™ Systemic Antibiotic**

(Affixed Booklet – Front Panel)

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

### **An ArborSystems™ Direct-Inject™ Chemical**

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
<b>Other Ingredients .....</b>	<b>95.7%</b>
<b>Total .....</b>	<b>100.0%</b>

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

### **CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

(Affixed Booklet – inside pages)

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
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### **An ArborSystems™ Direct-Inject™ Chemical**

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

### **ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
**MAR 07 2013**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
69117-10

EPA Reg. No. 69117-\_\_

EPA Est. 69117-NE-1

### First Aid

<b>If Swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in Eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

(Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.)

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Physical or Chemical Hazards**  
Do not use or store near heat or open flame.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear: coveralls over long-sleeved shirts and long pants, chemical-resistant gloves made of any waterproof material, shoes and socks.

#### **ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System**

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System is a no-drill trunk injection method that is easy to use. Most trees are treated in as little as 5 minutes or less, allowing applicators to treat trees quickly. There is no need to wait for absorption (translocation); chemical is injected into the cambial area (the active vascular system) of the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat trees year after year, with no threat of long-term or permanent damage to the tree. This system minimizes wounding and promotes long-term tree health and vigor.

#### **Restrictions**





This product is not to be used on trees or shrubs that will produce food within the year following treatment; during the year following treatment, do not use any part of treated trees or shrubs, including sap, as food or feed. Do not inject trees that are less than two inches in diameter.

#### **Product Information**

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for non-crop bearing ornamental trees and large woody shrubs. TERRIER™ Systemic Antibiotic [This product] provides seasonal suppression of a variety of diseases including bacterial leaf scorch, fire blight, yellows diseases, phloem necrosis, mycoplasmas, xylem-limited bacteria (*Xylella fastidiosa*, BLS) and some bacterial blight diseases. Late summer or early fall applications provide disease suppression the following season. Some diseases may require repeated yearly application.

Preventative application is more effective than therapeutic treatment in trees showing disease symptoms. Apply as a preventative when other trees in the area are showing symptoms. In trees showing symptoms, begin treatment as soon as possible. Trees in advanced stages of disease development may not respond to treatment. Infected trees will absorb the chemical more slowly due to the vascular damage caused by the disease. If TERRIER™ Systemic Antibiotic [this product] is not absorbed within 24 hours, the tree is considered high risk and has a poor chance of survival.

Dosage	
Inject 1 to 2 ml per every 4" of trunk circumference measured within 12" of the ground using the Wedgie Direct-Inject Tree Injection System. Use Portle® Tips for injecting Sycamores or thick-barked hardwoods such as elms. For other trees, use Wedgie® Tips. Make all injections around the base (or flare) of the tree.	

Diseases treated	Application Timing	
<b>Bacterial Leaf Scorch</b> in Elm, Oak, Sycamore, Oleander, Sweet Gum (Liquidambar) [1]	Apply in late summer or early fall for preventive suppression the following season. Applications made in spring (April or May) will suppress current year symptoms.	
<b>Fire Blight</b> in Mountain Ash	Applications are most successful when made in early spring (January through May depending upon location) prior to or during bloom period. Applications made after bloom period will still prevent secondary twig infections. Fall applications are NOT recommended for fire blight suppression.	
<b>Ash Yellows</b> in Ash	Applications for treatment of ash yellows are most successful in the spring and early summer when leafout has reached at least 50% or more as adequate foliage is needed to assure translocation.	
<b>Phloem Necrosis</b> in Elm, also called Elm Yellow. [2]	If phloem necrosis has been identified in nearby trees it is preferable to treat unaffected trees in late summer or early fall for preventive suppression the following season. Applications made in spring MAY suppress current year symptoms, however results on trees with symptoms is inconsistent.	

#### [Disease notes

- Bacterial Leaf Scorch (BLS)** is a bacterial plant disease caused by a vascular clogging bacterium [*Xylella fastidiosa*] that rapidly multiplies within active plant xylem. Distinct scorch-like leaf symptoms are followed by twig and branch death leading to plant decline and death. BLS bacterium is spread from diseased to healthy plant material during feeding by common urban xylem-feeding insects such as leafhoppers and treehoppers.
- Elms with phloem necrosis exhibit leaves which turn yellow (out of season) and may drop prematurely. On trees that survive over winter, leaves in the spring are small and sparse. Symptoms are quite similar to Dutch Elm Disease, however it is important to distinguish between the two diseases as treatments are different. In Elms with phloem necrosis the entire crown is likely to show symptoms at the same time with symptoms appearing from July to late September. With Dutch Elm Disease, usually one or several small branches in the upper crown show earlier symptoms, which may appear anytime during the growing season.]

#### How to Apply ArborSystems Direct-Inject Chemicals with ArborSystems Wedgie® Direct-Inject Tree Injection System

- Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgie Direct-Inject System.

2. Measure the circumference of the tree within 12" of the ground. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Choose which style and length of ArborSystems Injection Tip is most appropriate for type of tree you are treating.
4. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. If you need to inject a .5 ml dose of chemical, move the dose adjustment ring to the .5 ml dose adjustment groove.
5. Make injections working around base (or flare) of the tree. All injections should be made within 12" of the ground unless otherwise noted.
6. With a smooth motion, firmly squeeze the injection unit handles to deliver chemical into tree. Apply equal pressure on both handles—unequal pressure may bend or break the tip.
7. Continue making injections moving around the tree until the entire tree trunk has been treated.
8. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips or the injection unit.
9. Tips should be cleaned after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedge Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

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#### **Notice of Warranty**

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

[Sold by:]

**ArborSystems™**

**The No-Drill Injection Solution**

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P.O. Box 34645 • Omaha, NE 68134

Wedge® and Portle® are registered trademarks of ArborSystems  
ArborSystems™, Terrier™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems  
Direct-Inject™ unit is protected by U.S. Patent #5,901,498  
Wedge® Tip is protected by U.S. Patent #5,239,773  
WedgeChek™ is protected by U.S. Patent #5,797,215  
Portle® Tip is protected by U.S. Patent #7,178,286

{Box Label}

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**Other Ingredients** ..... 95.7%

**Total** ..... 100.0%

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The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

### **Storage and Disposal**

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**EPA Reg. No. 69117-\_\_**

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#### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

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For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear: coveralls over long-sleeved shirts and long pants, chemical-resistant gloves made of any waterproof material, shoes and socks.

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EPA Reg. No. 69117-\_\_\_

EPA Est. 69117-NE-1

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

[ ] Denotes alternate/optional language

[ ] Denotes language that does not appear on market labeling

*{Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.}*

### ArborSystems™ Wedgle® Direct-Inject™ System

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased and control of most problems can be seen in as little as three to five days. Also, because no chemical is lost in non-active wood, the Direct-Inject System allows you to use less chemical to achieve high levels of effectiveness; this saves money and reduces chemical waste. The Direct-Inject System injects chemicals into a tree with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter the tree, potential decay never starts and long-term wounding is prevented. The tree's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the tree. When air is allowed into a tree's vascular system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the tree.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree can best use it. No chemical is lost in dead wood.

ArborSystems Direct-Inject chemicals are integral parts of the Wedgle Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject units. Using unauthorized chemicals with the ArborSystems Wedgle Direct-Inject System constitutes a violation of Federal law.

### **Chemical Selection**

Your distributor can advise you on the best chemical selections for trees in your area.

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{Subpart B Label: For Use on Palms}

## **TERRIER™ Systemic Antibiotic**

{ABN: SPRINGER™ Systemic Antibiotic}

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

### **CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

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Net Contents: 4 fl. oz. (120 ml)  
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EPA Reg. No. 69117-\_\_ EPA Est. 69117-NE-1

### First Aid

If Swallowed	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on Skin or Clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

*(Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.)*

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Physical or Chemical Hazards**  
Do not use or store near heat or open flame.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear: coveralls over long-sleeved shirts and long pants, chemical-resistant gloves made of any waterproof material, shoes and socks.

#### **ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System**

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System, along with ArborSystems patented Portle® Tips and Palm Tips, is the ideal way to treat palms. This no-drill trunk injection method is easy to use. Palm and Portle Tips have been designed to penetrate the thick outer husks of palms. Several tip options are available allowing you to choose the tip best suited to treat palms of various husk density.

Most palms can be treated in as little as five minutes or less, allowing applicators to make treatments quickly. There is no need to wait for absorption (translocation); chemical is injected into the active portion of the palm without drilling. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat palms repeatedly with no threat of long-term or permanent damage. This system minimizes wounding and promotes long-term plant health and vigor.

#### **Restrictions**

This product is not to be used on palms that will produce food within the year following treatment. Do not use any part of treated palms as food or feed.

#### **Product Information**

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for use on palms. TERRIER™ Systemic Antibiotic [This product] provides suppression of lethal yellows disease (*phytoplasma* disease) in palms.

#### **Symptoms**

Symptoms vary significantly based on the palm species, but generally occur in sequence; fruit drop, flower/seed wilt, excessive yellowing of the canopy starting with the newest fronds and finally death of the palm bud leading to death of the entire plant. Sometimes a younger frond will yellow early in the process. This "flag leaf" is often an early visual symptom, but not present in every case.

### Treatment

Preventative treatments are more effective than therapeutic treatment in palms showing disease symptoms.

**As a therapeutic measure**, immediately begin applications to palms exhibiting symptoms and continue on a 3- to 4-month treatment schedule. Palms with over 25% discolored leaves are unlikely to respond to treatment.

**Preventive treatments** are recommended to protect palms in areas where lethal yellowing is known or likely to occur. Apply preventive treatments any time during the growing season once every 3 to 4 months.

Tree	Disease	Dosage per Injection Site
Palm	For suppression of Palm Lethal Yellows disease ( <i>Phytoplasma</i> disease)	6 ml per 6" of trunk circumference measured at chest height.

{Optional paragraph format}

Palm: For suppression of palm lethal yellows: Apply 6 ml of TERRIER™ Systemic Antibiotic [this product] per 6" of trunk circumference measured at chest height.

[Palms Susceptible to Lethal Yellowing]	
This chart is only intended as a general guide. Susceptibility may vary depending on your location and evolving conditions. Contact a trained arborist familiar with conditions in the area to determine treatment strategies.	
High susceptibility	Coconut Palm, all cultivars, <i>Cocos nucifera</i> Christmas Palm, <i>Adonidia merrillii</i> Loula/Konna Palm, <i>Pritchardia affinis</i> Thurston Fan Palm, <i>Pritchardia thurstonii</i> Tonga/Figi Fan Palm, <i>Pritchardia pacifica</i>
High/medium susceptibility	Canary Island Date Palm, <i>Phoenix canariensis</i> Clustering Fishtail Palm, <i>Caryota mitis</i> Medjool Date Palm, <i>Phoenix dactylifera</i> Sylvester/Wild Date Palm, <i>Phoenix sylvestris</i>
Medium susceptibility	Aricuriroba, <i>Syragus schizophylla</i> Palmyra Palm, <i>Borassus flabellifer</i> Princess Palm, <i>Dictosperma album</i> Senegal Date Palm, <i>Phoenix reclinata</i> Windmill Palm, <i>Trachycarpus fortunei</i>
Medium/low susceptibility	Chinese Fan Palm, <i>Livistonia chinensis</i> Latan Palm, <i>Latania lontaroides</i> Queen Palm, <i>Syragus romanzoffiana</i> Spindle Palm, <i>Hyophorbe verschaffeltii</i>
Low susceptibility	Washingtonia/Mexican Fan, <i>Washingtonia robusta</i> Triangle Palm, <i>Dypsis decaryi</i>
Undetermined level of susceptibility	Belmore Sentry, Cabada, Cabbage/Sabal, Cliff Date, Footstool, Gebang/Bur, Giant Fishtail, Kentia, Mazari, Miniature Sugar, Palma De Livvia, Rootspine, Seashore
Species thought to be resistant to Lethal Yellows	Bizmarckai, Foxtail, Royal, Solitaire]

{Information in above chart may be used selectively.}

### How to Inject Palms with ArborSystems Wedgie® Direct-Inject Tree Injection System

1. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgie Direct-Inject System.
2. Measure the circumference of the palm at chest height. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Palms are treated using ArborSystems Palm or Portle Injection Tips, depending on the husk density. Choose which injection tips will work best for the palm you are treating and attach the appropriate tip to the ArborSystems Tip Setter. Using multiple tips will speed the injection process.
4. At chest height, tap the injection tip into the palm using the Tip Setter, then disconnect the setter from the tip leaving the tip in the palm. Repeat until all tips are set in the palm. **Do not attempt to insert or remove tips with the injection unit as that is likely to damage the injection unit.**
5. Connect the Wedgie Direct-Inject unit to one of the tips already inserted in the palm.
6. With a smooth motion, firmly squeeze the injection unit handles. Apply equal pressure on both handles—unequal pressure may bend or break the tip. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. Repeat until the required amount of chemical has been injected at the injection site.
7. Remove the injection unit from the tip leaving the tip in the palm.
8. Move to the next tip and attach the injection unit to the tip. Continue making injections at all injection sites. After all injections have been completed, use the Tip Setter to remove the tips from the palm. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips.
9. Clean tips after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedgie Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

#### Notice of Warranty

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

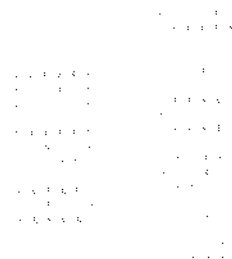
[Sold by:]

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Wedgie® Tip is a registered trademark of ArborSystems™  
ArborSystems™, Terrier™, Springer™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems

Direct-Inject™ unit is protected by U.S. Patent #5,901,498  
Wedge® Tip is protected by U.S. Patent #5,239,773  
WedgeChek™ is protected by U.S. Patent #5,797,215  
Portle® Tip is protected by U.S. Patent #7,178,286

{Box Label}

### TERRIER™ Systemic Antibiotic

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical  
•Easy •No drilling •Saves time and money

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

**Keep Out of Reach of Children**

### CAUTION

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

### DIRECTIONS FOR USE

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The ArborSystems Direct-Inject units are designed to be used only with ArborSystems' pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

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**21-Day Screen Completed by**  
**Contractor**

**21-Day Expires on** 11/26/12

**Jacket #** 69117-RW

**MRID#** \_\_\_\_\_

**Content Screen:** Recommend to **Pass/Fail**

**11-3 Review:** Pass/Fail/NA

**Overall Status:** Recommend to **Pass/Fail**

**Transfer This Jacket to:**

Steve Schauble

# PRIA 2 – 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only)

3/23/09

21 Day Screen Start Date: 11/5/12

Experts In-Processing Signature: MP Date 11/7/12

Fee Paid: Yes ☒

Division management contacted on issues No ☐ Yes ☐ Date \_\_\_\_\_

EPA Reg. Number: <u>69117-RN</u>		EPA Receipt Date: <u>11/5/12</u>				
Items for Review				Yes	No	N/A*
1	<b>Application Form</b> (EPA Form 8570-1)(link to form) signed & complete including package type			X		
2	<b>Confidential Statement of Formula</b> all boxes completed, form signed, and dated (EPA Form 8570-4) (Link to form) a) All inerts (link to <a href="http://www.epa.gov/oppr001/inerts/">http://www.epa.gov/oppr001/inerts/</a> ), including fragrances, approved for the proposed uses (see Footnote A) <u>100% repack</u>			X		
		yes	no			
3	<b>Certification with Respect to Citation of Data</b> (EPA Form 8570-34) (Link to form) completed and signed (N/A if 100% repack) Certificate and data matrix consistent					X
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)			yes	no	
	If applicable, is there a letter of Authorization for exclusive use only.					
4	<b>Formulator's Exemption Statement</b> (EPA Form 8570-27) (Link to form) completed and signed (N/A if source is unregistered or applicant owns the technical)			X		
5	<b>Data Matrix</b> (EPA Form 8570-35) (Link to form) both internal and external copies (PR 98-5) (Link to PR 98-5) completed and signed (N/A if 100% repack)					X
		yes	no			
	a) Selective Method (Fee category experts use)					
	b) Cite-All (Fee category experts use)					
	c) Applicant owns all data (Fee category experts use)					
6	<b>5 Copies of Label</b> (link to <a href="http://www.epa.gov/oppfead1/labeling/lrm/">http://www.epa.gov/oppfead1/labeling/lrm/</a> ) (Electronic labels on CD are encouraged and guidance is available)( link to <a href="http://www.epa.gov/pesticides/regulating/registering/submissions/index.htm#labels">http://www.epa.gov/pesticides/regulating/registering/submissions/index.htm#labels</a> )			X		

7	Is the data package consistent with PR Notice 86-5 (link to PRN 86-5)			X
8	Notice of Filing (link to <a href="http://www.epa.gov/pesticides/regulating/tolerance_petitions.htm">http://www.epa.gov/pesticides/regulating/tolerance_petitions.htm</a> ) included with petitions (link to <a href="http://www.epa.gov/pesticides/regulating/tolerances.htm">http://www.epa.gov/pesticides/regulating/tolerances.htm</a> )			X
9	If applicable for conventional applications, reduced risk rationale (link to <a href="http://www.epa.gov/opprd001/workplan/reducedrisk.html">http://www.epa.gov/opprd001/workplan/reducedrisk.html</a> )			X
10	Required Data (link to <a href="http://www.epa.gov/pesticides/regulating/data_requirements.htm">http://www.epa.gov/pesticides/regulating/data_requirements.htm</a> ) and/or data waivers. See Footnote C.			
	a) List study (or studies) not included with application			

Comments:

~~A~~

100% repack, no inerts to review

X No studies were submitted

Ticket Pass

RG

\* N/A – Not Applicable

Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses. If an unapproved inert is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are **strongly encouraged** to verify that all inert ingredients have been approved for the application's uses **even if a product is currently registered** by consulting the inert Web

site [link to <http://www.epa.gov/oppr001/inerts/lists.html>] and if the inert is not approved, to **obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient**. Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at [inertsbranch@epa.gov](mailto:inertsbranch@epa.gov) and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the Chief of Microbial Pesticides Branch [Link to [http://www.epa.gov/opppbpd1/biopesticides/contacts\\_bppd.html](http://www.epa.gov/opppbpd1/biopesticides/contacts_bppd.html)].

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information [link to <http://www.epa.gov/oppr001/inerts/tips.pdf>] must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

### **Unapproved Inerts Identified on CSFs**

#### **All applications except conventional new products and PIPs**

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

#### Conventional New Product Applications

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R311, R312 or R313), it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)
3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

#### PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

November 6, 2012

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

OPP Decision Number: D-471530  
EPA File Symbol or Registration Number: 69117-RN  
Product Name: TERRIER SYSTEMIC ANTIBIOTIC  
EPA Receipt Date: 05-Nov-2012  
EPA Company Number: 69117  
Company Name: ARBORSYSTEMS, INC.

KIMBERLEE YOUNG  
REGWEST COMPANY, LLC  
ARBORSYSTEMS, INC.  
D/B/A ARBOR SYSTEMS  
8203 WEST 20TH STREET, SUITE A  
GREELEY, CO 80634-4696

SUBJECT: Receipt of Application and 75% Small Business Waiver Request

Dear Registrant:

The Office of Pesticide Programs has received your application, 75% small business waiver request, and certification of payment. If you submitted data with this application, the results of the PRN-2011-3 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R300

NEW PRODUCT;OR SIMILAR COMBINATION PRODUCT (ALREADY REGISTERED) TO AN IDENTICAL OR SUBSTANTIALLY SIMILAR IN COMPOSITION AND USE TO A REGISTERED PRODUCT; REGISTERED SOURCE OF ACTIVE INGREDIENT;NO DATA REVIEW ON ACUTE TOXICITY, EFFICACY OR CRP - ONLY PRODUCT CHEMISTRY DATA;CITE-ALL DATA CITATION, OR SELECTIVE DATA CITATION WHERE APPLICANT OWNS ALL REQUIRED DATA, OR APPLICANT SUBMITS SPECIFIC AUTHORIZATION LETTER FROM DATA OWNER; CATEGORY ALSO INCLUDES 100% RE-PACKAGE OF REGISTERED END-USE OR MANUFACTURING-USE PRODUCT THAT REQUIRES NO DATA SUBMISSION NOR DATA MATRIX;

Your request for waiver has been forwarded for review. You will be notified in writing when a determination is made regarding your request. If your waiver request is approved, the decision review time period will start on the date of approval. If your waiver request is denied, you will receive an invoice for the outstanding balance. If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 308-9362.

Sincerely,   
Front End Processing Staff  
Information Technology & Resources Management Division

**Fee for Service**

*M*  
{926348C~

This package includes the following

☒ New Registration

☐ Amendment

☐ Studies? ☒ Fee Waiver?

☐ volpay % Reduction: \_\_\_\_

for Division

☐ AD

☐ BPPD

☒ RD

Risk Mgr.

20

Receipt No.

S- 926348

EPA File Symbol/Reg. No.

69117-RN

Pin-Punch Date:

11/5/2012

☐ This item is NOT subject to FFS action.

Action Code:

Requested:

R300

Granted:

R300

Amount Due: \$ 1434<sup>00</sup>

Parent/Child Decisions:

☒ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: *[Signature]*

Date: 11/6/12

Remarks:

Receipt for Section 3					
S:	926348		Resubmission: <input type="radio"/> Yes <input checked="" type="radio"/> No		
Regulatory Type:	Product Registration - Section 3		Fee For Service:	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Application Type:	New Registration		Billable:	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Company:	69117 ARBORSYSTEMS, INC.		V		
Risk Manager:	Registration Division, Risk Management Team 20				
Product #:	69117-RH		Product Name:	TERRIER SYSTEMIC ANTIBIOTIC	
Overview#:					
Me Too Section3:	[REDACTED]		Me Too Product Name:	[REDACTED]	
Application Date:	02-Nov-2012	icd	OPP Rec'd Date:	05-Nov-2012	icd
Front End Date:	05-Nov-2012	icd	Risk Manager Send Date:		icd
FFS Due Date:			Negotiated Due Date:		
OPP Target Date:					
Fast Track:	<input type="checkbox"/>		New Ingredient:	<input type="checkbox"/>	
Receipt Description:			View/Edit		
New product registration			New Ingredient		
			Request Date:		
			New Ingredient		
			Received Date:		
Form A:	<input type="checkbox"/>	Signature Date:		Form B:	<input type="checkbox"/>
					Signature Date:

Print Letter  
 Enter More Information  
 Tracking

Receipt Content	Des
CSF	
Paper Label	
<input type="button" value="View/Edit"/>	

\*Product ingredient source information may be entitled to confidential treatment\*

## Mary Beth Endres

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**From:** paygovadmin@mail.doc.twai.gov  
**Sent:** Thursday, November 01, 2012 5:54 PM  
**To:** Mary Beth Endres  
**Subject:** Pay.gov Payment Confirmation: PRIA Service Fees

Your payment has been submitted to Pay.gov and the details are below. If you have any questions regarding this payment, please contact Pay.gov Customer Service by phone at (800) 624-1373 or by email at [pay.gov.clev@clev.frb.org](mailto:pay.gov.clev@clev.frb.org).

Application Name: PRIA Service Fees  
Pay.gov Tracking ID: 258G378A  
Agency Tracking ID: 74373504267  
Transaction Type: Sale  
Transaction Date: Nov 1, 2012 7:53:42 PM

Account Holder Name: Gla  
Transaction Amount: \$359.00  
Billing Address: 10168 L St  
City: Omaha  
State/Province: NE  
Zip/Postal Code: 68127  
Country: USA  
Card Type: Visa  
Card Number: \*\*\*\*\*1728


Decision Number:  
Registration Number:  
Company Name: ArborSystems, Inc  
Company Number: 69117  
Action Code: R300

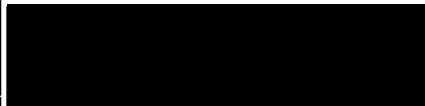
THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.

11/01/2012 5:54 PM  
Pay.gov Payment Confirmation: PRIA Service Fees  
Mary Beth Endres  
pay.gov.clev@clev.frb.org  
11/01/2012 5:54 PM  
Pay.gov Payment Confirmation: PRIA Service Fees  
Mary Beth Endres  
pay.gov.clev@clev.frb.org  
11/01/2012 5:54 PM  
Pay.gov Payment Confirmation: PRIA Service Fees  
Mary Beth Endres  
pay.gov.clev@clev.frb.org

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060.

	United States <b>Environmental Protection Agency</b> 1200 Pennsylvania Avenue, N.W. Washington, DC 20460-0001	<input checked="" type="checkbox"/> <b>Registration</b> <input type="checkbox"/> <b>Amendment</b> <input type="checkbox"/> <b>Other</b>	OPP Identifier Number <b>D-</b> _____
	Application for Pesticide – Section I		


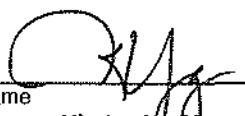
1. Company/Product Number <b>69117-</b>	2. EPA Product Manager <b>Shaja Joyner</b>	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company Product (Name) <b>TERRIER™ Systemic Antibiotic</b>	PM # <b>20</b>	
5. Name and Address of Applicant (Include ZIP Code) <b>ArborSystems, Inc. d/b/a ArborSystems</b> <b>c/o RegWest Company, LLC</b> <b>8203 West 20th Street, Suite A</b> <b>Greeley, CO 80634-4696</b> <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i) my product is similar or identical in composition and labeling to: 

Section – II <input type="checkbox"/> Amendment – Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input type="checkbox"/> Notification – Explain below.		<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input checked="" type="checkbox"/> Other – Explain below.
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

**PRIA New Product Application**  
**PRIA Category R300 (3 months decision time + \$1,434 fee reduced to \$359)**  
**Fee Reduction Form and documentation submitted herewith.**

Section – III 1. Material This Product Will Be Packaged In:			
Child Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify):
<b>*Certification must be submitted</b>	If "Yes" Unit Packaging Wt.	No. Per Container	If "Yes" Packaging Wt.
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container <b>4 fl. oz. (120 ml) and                  1 qt. 2 fl. oz. (1000 ml)</b>		5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling Accompanying Product
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Stenciled <input type="checkbox"/> Paper glued <input checked="" type="checkbox"/> Other <b>Self-adhesive; printed boxes</b>			

Section - IV 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application).		
Name <b>Kimberlee Young</b> <b>(formerly: Kim Davis)</b>	Title <b>Consultant/Agent</b>	Telephone No. (Include Area Code) <b>970.353.0611</b> <b>kim@regwest.com</b>
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received <b>(Stamped)</b> 
2. Signature 	3. Title <b>Consultant/Agent</b>	
4. Typed Name <b>Kimberlee Young</b> <b>(formerly: Kim Davis)</b>	5. Date <b>11/02/2012</b>	

**PRIA Application – Fee Reduction Documentation Attached**

November 2, 2012



Ms. Shaja Joyner, Product Manager 20  
Document Processing Desk - **REGFEE**  
Office of Pesticide Programs – **7504C**  
U.S. Environmental Protection Agency  
One Potomac Yard (South Building), Room S-4900  
2777 South Crystal Drive  
Arlington, VA 22202

**\*Product ingredient source information may be entitled to confidential treatment\***

Dear Ms. Joyner:

**Subject:** ArborSystems, Inc. d/b/a ArborSystems  
TERRIER™ Systemic Antibiotic  
EPA File Symbol 69117-\_\_\_\_\_

On behalf of **ArborSystems, Inc. d/b/a ArborSystems**, RegWest Company, LLC is submitting the attached documents in support of a FIFRA Section (3)(c)(3)(b)(i) pesticide product registration. RegWest will act as sole agent in this endeavor.

Attached are the following:


1. Pay.Gov Payment Confirmation – attached to:
2. Application for Pesticide: **Registration**
3. Agent authorization letter (copy)
4. Voluntary Small Business Certification Form for Pesticide Registration Fee Waiver/Reduction
5. Five copies of proposed labeling
6. Formulator's Exemption Statement
7. Confidential Statement of Formula (2 originals)

This product is a 100% repack of [REDACTED]. The labeling is substantially similar to ArborSystem's Shepherd Fungicide (69117-3). The subject product will be marketed to professional arborists with the patented ArborSystems tree injection delivery system. This closed system quickly and efficiently injects chemicals into trees with minimal wounding. In addition, the system injects chemicals into the cambial area of trees; this means substantially smaller amounts of chemicals provide the intended benefit.

Please note we are also including the additional brand name of "SPRINGER™ Systemic Antibiotic" on the Subpart B label.

Please contact me or Mary Beth Endres at 970.353.0611 or marybeth@regwest.com if you have any questions or require additional information.

Regards,  
RegWest Company, LLC

  
Kimberlee Young  
(formerly: Kim Davis),  
Consultant/Agent

Attachments

cc: ASI – Doolittle, C.

## R 300 and 301

100% identical (repack): YES or NO (circle one)

{If **yes**, it's a 100% repack - then product chemistry, acute toxicity and efficacy data are not required}

Data on Group A and B must be submitted - Group A and B can not be cited.

Guideline No.	Group A: Product Chemistry Data Study Title	Data submitted	
		Yes	No
830.1550	Product Identity & Composition		
830.1600	Description of materials used to produce the product		
830.1650	Description of formulation process		
830.1670	Discussion on the formation of impurities		
830.1700	Preliminary analysis		
830.1750	Certified limits (158.345)		
830.1800	Enforcement analytical method		

Guideline No.	Group B: Product Chemistry Data Study Title	Data submitted	
		Yes	No
830.6302	Color		
830.6303	Physical State		
830.6304	Odor		
830.6314	Oxidation/Reduction (Chemical incompatibility)		
830.6315	Flammability		
830.6316	Explodability		
830.6317	Storage stability		
830.6319	Miscibility		
830.6320	Corrosion Characteristics		
830.6321	Dielectric Breakdown voltage		
830.7000	pH		
830.7100	Viscosity		
830.7300	Density		



United States  
Environmental Protection Agency  
Washington, DC 20460

**Formulator's Exemption Statement**  
(40 CFR § 152.85 and § 158.50)

<b>Applicant's Name and Address:</b> ArborSystems, Inc. d/b/a ArborSystems c/o RegWest Company, LLC 8203 West 20 <sup>th</sup> St., Suite A Greeley, CO 80634-4696	<b>EPA File Symbol/Registration Number:</b> 69117-
	<b>Product Name:</b> TERRIER™ Systemic Antibiotic
	<b>Date of Confidential Statement of Formula (EPA Form 8570-4):</b> November 2, 2012

As an authorized representative of the applicant for registration of the product identified above, I certify that:

(1) This product contains the following active ingredient(s):

**4.3% Oxytetracycline hydrochloride**


(2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person and meets the requirements of 40 CFR § 158.50(e)(2) or (3).

(3) Indicate by checking (A) or (B) below which paragraph applies:

☒ (A) An accurate Confidential Statement of Formula (CSF) (EPA Form 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number and product name the source of the active ingredient(s) listed in paragraph (1).

☐ (B) The Confidential Statement of Formula (CSF) (EPA Form 8570-4) referenced above and on file with the EPA is complete, current, is accurate and contains the information required on the current CSF.

(4) The following active ingredients in this product qualify for the Formulator's Exemption:

Source		
Active Ingredient(s)	Product Name(s)	Registration Number(s)
Oxytetracycline hydrochloride		
Signature 	Name and Title Kimberlee Young (formerly: Kim Davis), Agent/Consultant	Date 11/02/2012

{Subpart A Label: For Use on Trees Excluding Palms}

## **TERRIER™ Systemic Antibiotic**

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

#### **An ArborSystems™ Direct-Inject™ Chemical**

**Active Ingredient:**

Oxytetracycline hydrochloride ..... 4.3%

**Other Ingredients** ..... 95.7%

**Total** ..... 100.0%

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

### **CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

#### **An ArborSystems™ Direct-Inject™ Chemical**

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)  
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-\_\_

EPA Est. 69117-NE-1

### First Aid

If Swallowed	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If on Skin or Clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

(Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.)

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Physical or Chemical Hazards**  
Do not use or store near heat or open flame.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear: coveralls over long-sleeved shirts and long pants, chemical-resistant gloves made of any waterproof material, shoes and socks.

#### **ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System**

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System is a no-drill trunk injection method that is easy to use. Most trees are treated in as little as 5 minutes or less, allowing applicators to treat trees quickly. There is no need to wait for absorption (translocation); chemical is injected into the cambial area (the active vascular system) of the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat trees year after year, with no threat of long-term or permanent damage to the tree. This system minimizes wounding and promotes long-term tree health and vigor.

#### **Restrictions**





This product is not to be used on trees or shrubs that will produce food within the year following treatment; during the year following treatment, do not use any part of treated trees or shrubs, including sap, as food or feed. Do not inject trees that are less than two inches in diameter.

#### **Product Information**

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for non-crop bearing ornamental trees and large woody shrubs. TERRIER™ Systemic Antibiotic [This product] provides seasonal suppression of a variety of diseases including bacterial leaf scorch, fire blight, yellows diseases, phloem necrosis, mycoplasmas, xylem-limited bacteria (*Xylella fastidiosa*, BLS) and some bacterial blight diseases. Late summer or early fall applications provide disease suppression the following season. Some diseases may require repeated yearly application.

Preventative application is more effective than therapeutic treatment in trees showing disease symptoms. Apply as a preventative when other trees in the area are showing symptoms. In trees showing symptoms, begin treatment as soon as possible. Trees in advanced stages of disease development may not respond to treatment. Infected trees will absorb the chemical more slowly due to the vascular damage caused by the disease. If TERRIER™ Systemic Antibiotic [this product] is not absorbed within 24 hours, the tree is considered high risk and has a poor chance of survival.

Dosage	
Inject 1 to 2 ml per every 4" of trunk circumference measured within 12" of the ground using the Wedgle Direct-Inject Tree Injection System. Use Portle® Tips for injecting Sycamores or thick-barked hardwoods such as elms. For other trees, use Wedgle® Tips. Make all injections around the base (or flare) of the tree.	

Diseases treated	Application Timing	
<b>Bacterial Leaf Scorch</b> in Elm, Oak, Sycamore, Oleander, Sweet Gum (Liquidambar) <sup>[1]</sup>	Apply in late summer or early fall for preventive suppression the following season. Applications made in spring (April or May) will suppress current year symptoms.	
<b>Fire Blight</b> in Mountain Ash	Applications are most successful when made in early spring (January through May depending upon location) prior to or during bloom period. Applications made after bloom period will still prevent secondary twig infections. Fall applications are NOT recommended for fire blight suppression.	
<b>Ash Yellows</b> in Ash	Applications for treatment of ash yellows are most successful in the spring and early summer when leafout has reached at least 50% or more as adequate foliage is needed to assure translocation.	
<b>Phloem Necrosis</b> in Elm, also called Elm Yellow. <sup>[2]</sup>	If phloem necrosis has been identified in nearby trees it is preferable to treat unaffected trees in late summer or early fall for preventive suppression the following season. Applications made in spring MAY suppress current year symptoms, however results on trees with symptoms is inconsistent.	

#### [Disease notes

- Bacterial Leaf Scorch (BLS)** is a bacterial plant disease caused by a vascular clogging bacterium (*Xylella fastidiosa*) that rapidly multiplies within active plant xylem. Distinct scorch-like leaf symptoms are followed by twig and branch death leading to plant decline and death. BLS bacterium is spread from diseased to healthy plant material during feeding by common urban xylem-feeding insects such as leafhoppers and treehoppers.
- Elms with phloem necrosis** exhibit leaves which turn yellow (out of season) and may drop prematurely. On trees that survive over winter, leaves in the spring are small and sparse. Symptoms are quite similar to Dutch Elm Disease, however it is important to distinguish between the two diseases as treatments are different. In Elms with phloem necrosis the entire crown is likely to show symptoms at the same time with symptoms appearing from July to late September. With Dutch Elm Disease, usually one or several small branches in the upper crown show earlier symptoms, which may appear anytime during the growing season.

#### How to Apply ArborSystems Direct-Inject Chemicals with ArborSystems Wedgle® Direct-Inject Tree Injection System

- Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.

2. Measure the circumference of the tree within 12" of the ground. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Choose which style and length of ArborSystems Injection Tip is most appropriate for type of tree you are treating.
4. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. If you need to inject a .5 ml dose of chemical, move the dose adjustment ring to the .5 ml dose adjustment groove.
5. Make injections working around base (or flare) of the tree. All injections should be made within 12" of the ground unless otherwise noted.
6. With a smooth motion, firmly squeeze the injection unit handles to deliver chemical into tree. Apply equal pressure on both handles—unequal pressure may bend or break the tip.
7. Continue making injections moving around the tree until the entire tree trunk has been treated.
8. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips or the injection unit.
9. Tips should be cleaned after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Wedgle Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

#### **Notice of Warranty**

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use when used strictly in accordance with the directions on the labeling. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

**[Sold by:]**

**ArborSystems™**

**The No-Drill Injection Solution**

**[800-698-4641] • [Fax: 402-339-5011]**

**P.O. Box 34645 • Omaha, NE 68134**

Wedgle® and Portle® are registered trademarks of ArborSystems  
ArborSystems™, Terrier™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems  
Direct-Inject™ unit is protected by U.S. Patent #5,901,498  
Wedgle® Tip is protected by U.S. Patent #5,239,773  
WedgeChek™ is protected by U.S. Patent #5,797,215  
Portle® Tip is protected by U.S. Patent #7,178,286

{Box Label}

### **TERRIER™ Systemic Antibiotic**

For suppression of certain diseases including bacterial leaf scorch,  
fire blight, yellows diseases and phloem necrosis on ornamental trees.

**An ArborSystems™ Direct-Inject™ Chemical**

•Easy •No drilling •Saves time and money

#### **Active Ingredient:**

Oxytetracycline hydrochloride ..... 4.3%

**Other Ingredients** ..... 95.7%

**Total** ..... 100.0%

**Keep Out of Reach of Children**

### **CAUTION**

**See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.**

**Use within 6 months of the container-stamped packaged date.**

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

### **Storage and Disposal**

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*[Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.]*

**Net Contents: 4 fl. oz. (120 ml)**  
**[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]**

EPA Reg. No. 69117-\_\_

EPA Est. 69117-NE-1

[Sold by:]

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{Pack Label}

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#### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear: coveralls over long-sleeved shirts and long pants, chemical-resistant gloves made of any waterproof material, shoes and socks.

The ArborSystems Wedgle Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

### Storage and Disposal

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[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

*{Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.}*

### ArborSystems™ Wedgle® Direct-Inject™ System

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the tree. Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased and control of most problems can be seen in as little as three to five days. Also, because no chemical is lost in non-active wood, the Direct-Inject System allows you to use less chemical to achieve high levels of effectiveness; this saves money and reduces chemical waste. The Direct-Inject System injects chemicals into a tree with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter the tree, potential decay never starts and long-term wounding is prevented. The tree's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the tree. When air is allowed into a tree's vascular system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the tree.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree can best use it. No chemical is lost in dead wood.

ArborSystems Direct-Inject chemicals are integral parts of the Wedgle Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject units. Using unauthorized chemicals with the ArborSystems Wedgle Direct-Inject System constitutes a violation of Federal law.

## Chemical Selection

Your distributor can advise you on the best chemical selections for trees in your area.

[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on market labeling

[illegible]

{Subpart B Label: For Use on Palms}

## **TERRIER™ Systemic Antibiotic**

{ABN: SPRINGER™ Systemic Antibiotic}

{Affixed Booklet – Front Panel}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
Other Ingredients .....	95.7%
Total .....	100.0%

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

**Keep Out of Reach of Children**

### **CAUTION**

See inside for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

{Affixed Booklet – inside pages}

### **TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical

•Easy •No drilling •Saves time and money

Intended for use by arborists/applicators, grounds maintenance personnel and landscapers.

To be used only with the ArborSystems Wedgle® Direct-Inject™ Tree Injection System

[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

[800-698-4641] • [Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

EPA Reg. No. 69117-\_\_\_

EPA Est. 69117-NE-1

### First Aid

<b>If Swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in Eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: <a href="http://www.npic.orst.edu">www.npic.orst.edu</a>).</p>	
<p><b>Note to Physician:</b> There is no specific antidote available. Treat patient symptomatically.</p>	

(Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.)

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed. Avoid contact with skin or clothing. Causes moderate eye irritation. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), Viton, Selection Category C). Avoid contact with eyes or clothing. Wear protective eyewear such as goggles or shielded safety glasses. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as polyethylene, butyl rubber, neoprene rubber or Viton and protective eyewear such as goggles, face shield or safety glasses.

### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing/PPE if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Physical or Chemical Hazards**  
Do not use or store near heat or open flame.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear: coveralls over long-sleeved shirts and long pants, chemical-resistant gloves made of any waterproof material, shoes and socks.

#### **ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System**

The ArborSystems™ Wedgle® Direct-Inject™ Tree Injection System, along with ArborSystems patented Portle® Tips and Palm Tips, is the ideal way to treat palms. This no-drill trunk injection method is easy to use. Palm and Portle Tips have been designed to penetrate the thick outer husks of palms. Several tip options are available allowing you to choose the tip best suited to treat palms of various husk density.

Most palms can be treated in as little as five minutes or less, allowing applicators to make treatments quickly. There is no need to wait for absorption (translocation); chemical is injected into the active portion of the palm without drilling. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions, rainy or dry, at any time of day. As no drilling or implants are required, you can treat palms repeatedly with no threat of long-term or permanent damage. This system minimizes wounding and promotes long-term plant health and vigor.

#### **Restrictions**

This product is not to be used on palms that will produce food within the year following treatment. Do not use any part of treated palms as food or feed.

#### **Product Information**

TERRIER™ Systemic Antibiotic [This product] is a ready-to-use antibiotic for use on palms. TERRIER™ Systemic Antibiotic [This product] provides suppression of lethal yellows disease (*phytoplasma* disease) in palms.

#### **Symptoms**

Symptoms vary significantly based on the palm species, but generally occur in sequence; fruit drop, flower/seed wilt, excessive yellowing of the canopy starting with the newest fronds and finally death of the palm bud leading to death of the entire plant. Sometimes a younger frond will yellow early in the process. This "flag leaf" is often an early visual symptom, but not present in every case.

### Treatment

Preventative treatments are more effective than therapeutic treatment in palms showing disease symptoms.

**As a therapeutic measure**, immediately begin applications to palms exhibiting symptoms and continue on a 3- to 4-month treatment schedule. Palms with over 25% discolored leaves are unlikely to respond to treatment.

**Preventive treatments** are recommended to protect palms in areas where lethal yellowing is known or likely to occur. Apply preventive treatments any time during the growing season once every 3 to 4 months.

Tree	Disease	Dosage per Injection Site
Palm	For suppression of Palm Lethal Yellows disease ( <i>Phytoplasma</i> disease)	6 ml per 6" of trunk circumference measured at chest height.

{Optional paragraph format}

**Palm:** For suppression of palm lethal yellows: Apply 6 ml of TERRIER™ Systemic Antibiotic [this product] per 6" of trunk circumference measured at chest height.

[Palms Susceptible to Lethal Yellowing]	
This chart is only intended as a general guide. Susceptibility may vary depending on your location and evolving conditions. Contact a trained arborist familiar with conditions in the area to determine treatment strategies.	
High susceptibility	Coconut Palm, all cultivars, <i>Cocos nucifera</i> Christmas Palm, <i>Adonidia merrillii</i> Loula/Konna Palm, <i>Pritchardia affinis</i> Thurston Fan Palm, <i>Pritchardia thurstonii</i> Tonga/Figi Fan Palm, <i>Pritchardia pacifica</i>
High/medium susceptibility	Canary Island Date Palm, <i>Phoenix canariensis</i> Clustering Fishtail Palm, <i>Caryota mitis</i> Medjool Date Palm, <i>Phoenix dactylifera</i> Sylvester/Wild Date Palm, <i>Phoenix sylvestris</i>
Medium susceptibility	Aricuriroba, <i>Syragus schizophylla</i> Palmyra Palm, <i>Borassus flabellifer</i> Princess Palm, <i>Dictosperma album</i> Senegal Date Palm, <i>Phoenix reclinata</i> Windmill Palm, <i>Trachycarpus fortunei</i>
Medium/low susceptibility	Chinese Fan Palm, <i>Livistonia chinensis</i> Latan Palm, <i>Lalania lontaroides</i> Queen Palm, <i>Syragus romanzoffiana</i> Spindle Palm, <i>Hyophorbe verschaffeltii</i>
Low susceptibility	Washingtonia/Mexican Fan, <i>Washingtonia robusta</i> Triangle Palm, <i>Dypsis decaryi</i>
Undetermined level of susceptibility	Belmore Sentry, Cabada, Cabbage/Sabal, Cliff Date, Footstool, Gebang/Buri, Giant Fishtail, Kentia, Mazari, Miniature Sugar, Palma De Lluvia, Rootspine, Seashore
Species thought to be resistant to Lethal Yellows	Bizmarckai, Foxtail, Royal, Solitaire]

{Information in above chart may be used selectively.}

### How to Inject Palms with ArborSystems Wedgle® Direct-Inject Tree Injection System

- t. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Wedgle Direct-Inject System.
2. Measure the circumference of the palm at chest height. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Palms are treated using ArborSystems Palm or Portle Injection Tips, depending on the husk density. Choose which injection tips will work best for the palm you are treating and attach the appropriate tip to the ArborSystems Tip Setter. Using multiple tips will speed the injection process.
4. At chest height, tap the injection tip into the palm using the Tip Setter, then disconnect the setter from the tip leaving the tip in the palm. Repeat until all tips are set in the palm. **Do not attempt to insert or remove tips with the injection unit as that is likely to damage the injection unit.**
5. Connect the Wedgle Direct-Inject unit to one of the tips already inserted in the palm.
6. With a smooth motion, firmly squeeze the injection unit handles. Apply equal pressure on both handles—unequal pressure may bend or break the tip. The injection unit is preset to deliver a 1 ml dose of chemical with each full stroke of the handles. Repeat until the required amount of chemical has been injected at the injection site.
7. Remove the injection unit from the tip leaving the tip in the palm.
8. Move to the next tip and attach the injection unit to the tip. Continue making injections at all injection sites. After all injections have been completed, use the Tip Setter to remove the tips from the palm. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips.
9. Clean tips after each use by submerging in alcohol or diluted bleach.
- t0. At the end of the day, water flush the Wedgle Direct-Inject unit to prevent clogging.

**Avoiding chemical waste:** Any time you remove a chemical pack (after making injections), there is approximately 2.5 ml of chemical retained in the injection unit. To avoid wasting this chemical, remove the chemical pack before making your final injections. You will be able to make two additional 1 ml doses with the chemical remaining in the injection unit.

#### Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

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[Sold by:]

**ArborSystems™**

*The No-Drill Injection Solution*

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P.O. Box 34645 • Omaha, NE 68134

Wedgle® Tip is a registered trademark of ArborSystems™

ArborSystems™, Terrier™, Springer™, Direct-Inject™ and WedgeChek™ are trademarks of ArborSystems

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Wedgle® Tip is protected by U.S. Patent #5,239,773  
WedgeChek™ is protected by U.S. Patent #5,797,215  
Portle® Tip is protected by U.S. Patent #7,178,286

{Box Label}

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<b>Other Ingredients</b> .....	<b>95.7%</b>
<b>Total</b> .....	<b>100.0%</b>

**Keep Out of Reach of Children**

### **CAUTION**

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**Use within 6 months of the container-stamped packaged date.**

### **DIRECTIONS FOR USE**

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### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

*{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}*

**Net Contents: 4 fl. oz. (120 ml)**  
**[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]**

**EPA Reg. No. 69117-\_\_**

**EPA Est. 69117-NE-1**

[Sold by:]  
**ArborSystems™**  
*The No-Drill Injection Solution*  
[800-698-4641] • [Fax: 402-339-5011]  
P.O. Box 34645 • Omaha, NE 68134

[Pack Label]

**TERRIER™ Systemic Antibiotic**

For seasonal suppression of lethal yellows (phytoplasma disease) on palms.

An ArborSystems™ Direct-Inject™ Chemical  
•Easy •No drilling •Saves time and money

**Active Ingredient:**

Oxytetracycline hydrochloride .....	4.3%
<b>Other Ingredients .....</b>	<b>95.7%</b>
<b>Total .....</b>	<b>100.0%</b>

**Keep Out of Reach of Children**

**CAUTION**

See booklet for First Aid, additional Precautionary Statements and complete Directions for Use.

Use within 6 months of the container-stamped packaged date.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

The ArborSystems Direct-Inject units are designed to be used only with ArborSystems' pre-packed chemicals. Tampering with packs or contents may cause non-warranted damage to your injection system.

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool (>45°F) place with containers in an upright position. Do not expose material to temperatures (>85°F) for prolonged periods. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

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- [ ] Denotes alternate/optional language  
[ ] Denotes language that does not appear on market labeling

*(Additional Selling/Marketing Copy for use in conjunction with promotional pieces: brochures; on the website; and in other promotional materials, displays, etc.)*

### ArborSystems™ Wedgle® Direct-Inject™ System

The ArborSystems Wedgle® Direct-Inject Tree Injection System is effective. Chemicals are injected directly into the active area of the palm. Because the chemical is placed right where the palm can use it, effectiveness of the chemical is increased. The Direct-Inject System injects chemicals into a palm with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter, potential decay never starts and long-term wounding is prevented. The palm's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

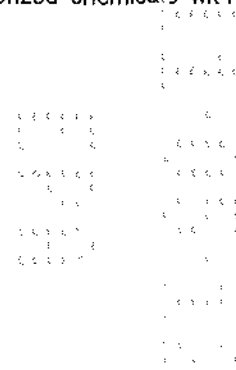
- Minimizes wounding to keep out diseases, fungi, bacteria and insects.
- Prevents air from getting into the palm. When air is allowed into a palm's active system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the palm.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals, tree care experts effectively combat and manage many of the most devastating environmental plant threats.

The ArborSystems Wedgle® Direct-Inject System is designed to preserve and protect the natural and urban forest. Treat almost any tree in five minutes or less. The Direct-Inject System is an efficient chemical delivery system. You achieve control with less chemical because chemical is placed precisely where the tree or palm can best use it.

ArborSystems Direct-Inject chemicals are integral parts of the Direct-Inject Tree Injection System. Use only ArborSystems Direct-Inject chemicals with the Wedgle Direct-Inject unit. Using unauthorized chemicals with the ArborSystems Direct-Inject System constitutes a violation of Federal law.

- [ ] Denotes alternate/optional language  
[ ] Denotes language that does not appear on market labeling



# ArborSystems

Tree Injection Solutions

RECEIVED NOV 09 2011

November 7, 2011

Ms. Kathleen O'Malley  
Document Processing Desk – **COADR**  
Office of Pesticide Programs – **7504P**  
U.S. Environmental Protection Agency  
One Potomac Yard, Room S-4900  
2777 South Crystal Drive  
Arlington, VA 22202

Dear Ms. O'Malley

**Subject:** Authorization for Representation/Agent Status  
EPA Company Number: 69117

Pursuant to 40 CFR § 152.50(b)(3), ArborSystems, Inc. d/b/a ArborSystems designates RegWest Company, LLC as authorized agent to act on behalf of ArborSystems, Inc. d/b/a ArborSystems with respect to any registration matters, regulated through the FIFRA (as amended), and regulatory programs administered by the Agency.

Effective immediately the address of record will be:

ArborSystems, Inc. d/b/a ArborSystems  
c/o RegWest Company, LLC

8203 West 20th St., Suite A  
Greeley, CO 80634-4696

Our authorized agents are Kim Davis, Mary Beth Endres and Dean Moser. Kim, Mary Beth and Dean can be reached at 970.353.0611 (phone), 970.353.0613 (fax) or kim@regwest.com; marybeth@regwest.com; and dean@regwest.com if you have any questions or require additional information.

This authorization will remain valid until either ArborSystems, Inc. d/b/a ArborSystems or RegWest gives further notice.

Sincerely,



cc: RegWest

P.O. Box 34645 | Omaha, NE 68134-0645  
Toll-Free 800-698-4641 | Phone 402-339-4459 | Fax 402-339-5011  
www.ArborSystems.com

